

Analysis Report about Amber Heard **2018 Reddit Contributions**

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Introduction

Note: This report is a part of **Case Study: “Reddit Social Network Analysis Against Influence Operation”**

By analyzing accounts posting/commenting against a victim of a Social Bot Disinformation/Influence Operation.

We have four main datasets scraped from Reddit

- 1. A dataset with submissions & comments data (2018).
- 2. Users Data (from 2006 to 2018).
- 3. A merged dataset (submissions & comments data, users data).
- 4. Daily creation data (# of accounts created per day from 2006 to 2018).

The data Timezone is Epoch/UTC.

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Overview

- About **20% of 2018 contributions** were made by
 - banned ¹(**8.38 % → 586**) .
 - unverified ²(**11.3 % → 789**) .
- About **20 % of 2018 submissions** were made by
 - banned (**14.9 % → 1175**)
 - unverified (**6.48 % → 511**) .
- **28.5 % of the peak day (03/07/2018)** were made by
 - banned (**17.4 % → 33**) .
 - unverified (**11.1 % → 21**) .
- **21.45% of submissions of the peak day submissions (03/07/2018)** were made by
 - banned accounts (**15.3 % → 305**) .
 - unverified accounts (**6.15 % → 123**) .

Statistics of unverified accounts

- **Description of contributions scores**
 - count³ 789
 - mean 18.65
 - std 55.2
 - min -64
 - 25% 1
 - 50% 3
 - 75% 11
 - max 578
- The percentage of **2018 contributions** made by **Unverified** accounts **11.3%**
- Total **unverified** accounts **contributions** in **2018**, **789**.
- Total **unverified** accounts **comments** in **2018**, **566**.
- Number of contributed **users** is **275**.
- The percentage of **2018 submissions** made by **Unverified** accounts **6.15** with **123 submissions**.

Statistics of Banned accounts

- **Description of contributions scores**
 - count 585
 - mean 38.42
 - std 157.2
 - min -53
 - 25% 1
 - 50% 3
 - 75% 25
 - max 2847

¹ This user banned from reddit

² The user has not verified mail for this account.

³ Number of contributions of unverified accounts which have scores.

- The percentage of 2018 **contributions** made by **Banned** accounts **8.38%**
- Total **banned** accounts **contributions** in 2018 is **789**.
- Total banned accounts comments in 2018 is **281**.
- The percentage % of 2018 **submissions** made by **Banned** accounts **15.3%**.
- Total **banned** accounts **submissions** in 2018 **305**

Top users statistics:

- **Fakeposter77 (banned):**
 - Made only one submission on 11-11-2018.
 - This user's contributions got the highest scores.
- **Michikoperdue (banned):**
 - this user made 3 contributions with the same text in the same time in 3 different subreddits
 - r/Celebsnudess 1
 - r/CelebNudes 1
 - r/celebJObuds 1
- **Hnglmkrnglbrry (unverified)**
 - unverified account with the highest score.
 - Account Created at: 2017-01-30
- A lot of **unverified** users has a link karma of **1** → 'nsfwalt_100', 'EverGenius', 'windinmynuts',
- 'giantfatdeliciousbird', 'epicimagebot', 'IWannaBangBiel', 'lamsWholams', 'Tedmonds30', 'juggalobobby1', 'Sonmeisterbank', 'MrGreen098', 'Ragobie0404'
-
- **Murph420 (unverified)**
 - has the minimum comment karma
- **Ibracadabra101 (unverified)**
 - this user has the highest score among the unverified users
- **HardSellDude (unverified)**
 - This user has the minimum score among the unverified users.

Statistics of 2018 accounts.

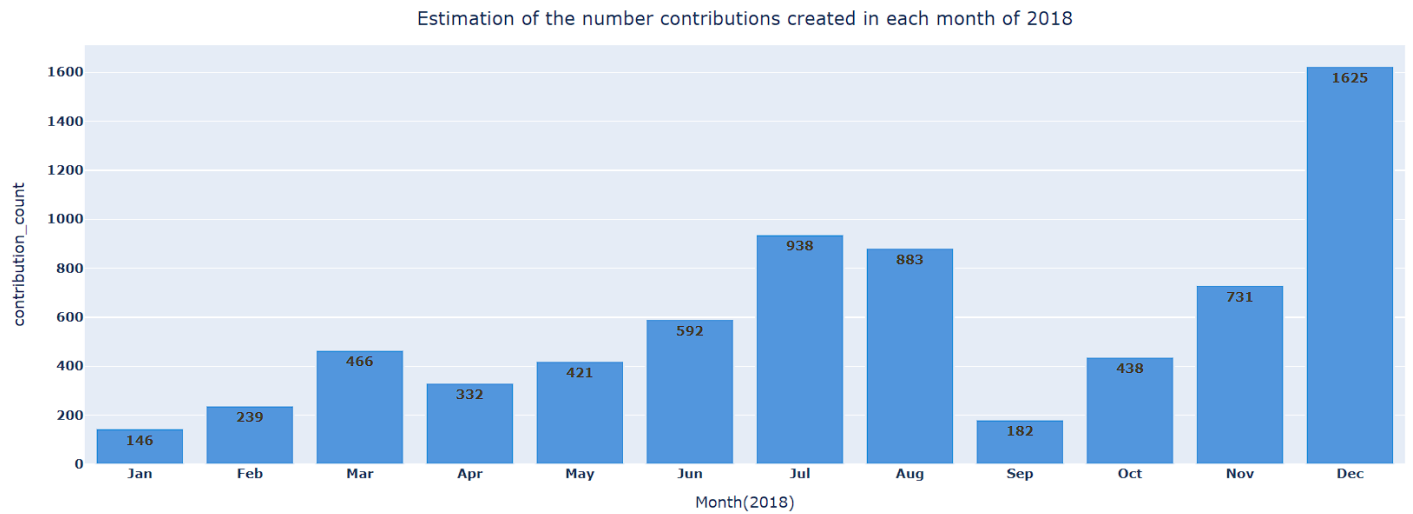
- Total contributions in 2018 made by newly created accounts(2018): 875
- The percentage % of 2018 contributions made by newly created accounts(2018): 12.51
- Total comments in 2018 made by newly created accounts(2018): 636
- Total submissions in 2018 made by newly created accounts(2018): 239
- The percentage % of 2018 submissions made by newly created accounts(2018): 11.95

2018 accounts contributions scores

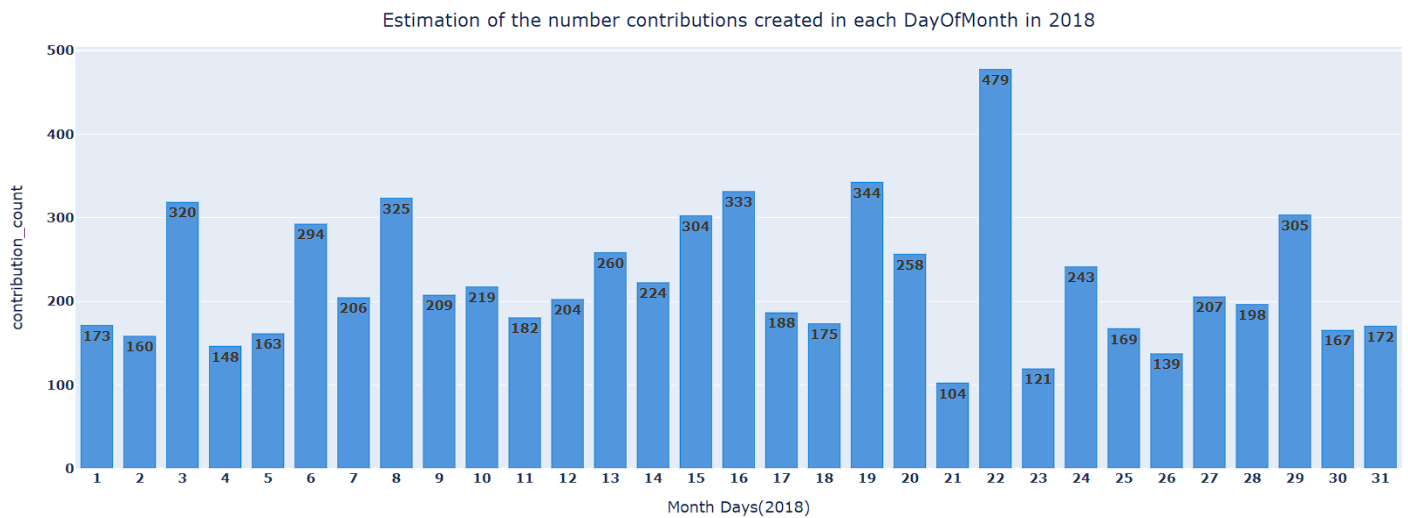
- count 6987
- mean 36.4
- std 170.11
- min -92
- 25% 1
- 50% 3
- 75% 16
- max 4188

Peaks

Peak Months

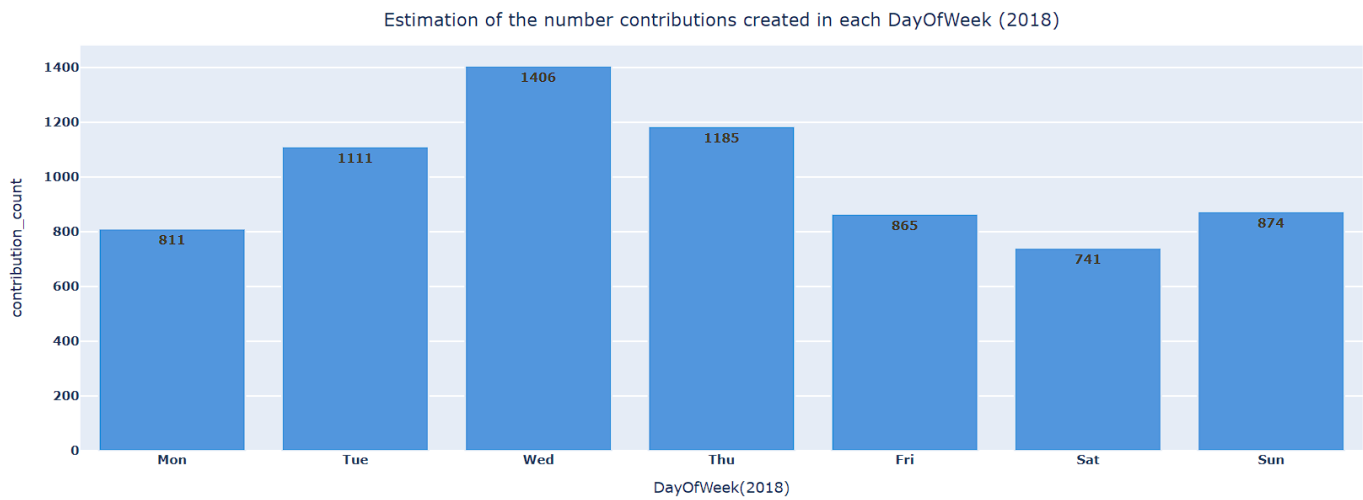


Peak Days of The Months⁴

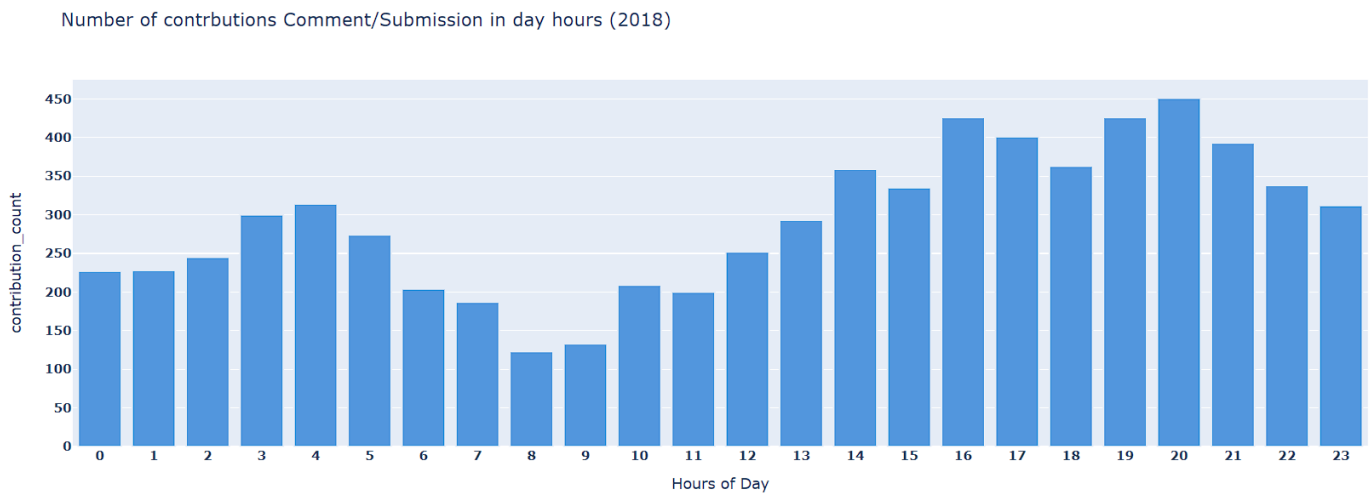


⁴ Day of month means day 1 in all months, 2 in all months.. etc. (sum of all contributions on the same day of each month)

Peak Days of The Week



Peak Hours

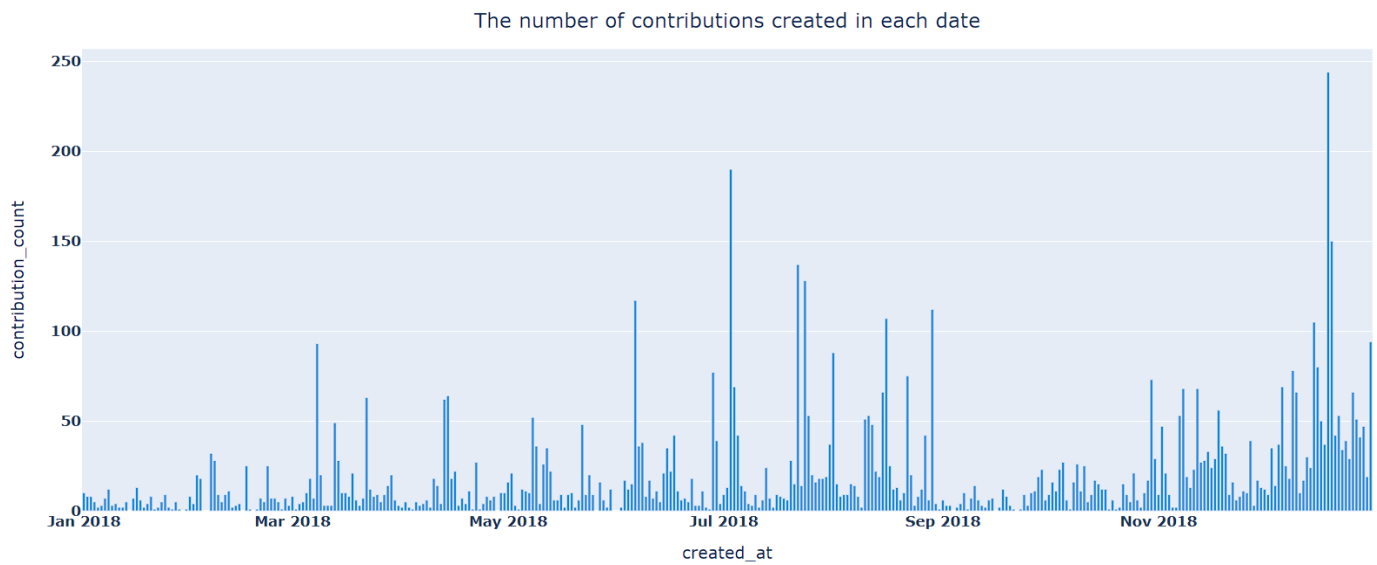


- It's weird to have high contributions all day!

Peak Dates

In this year the peak dates are:

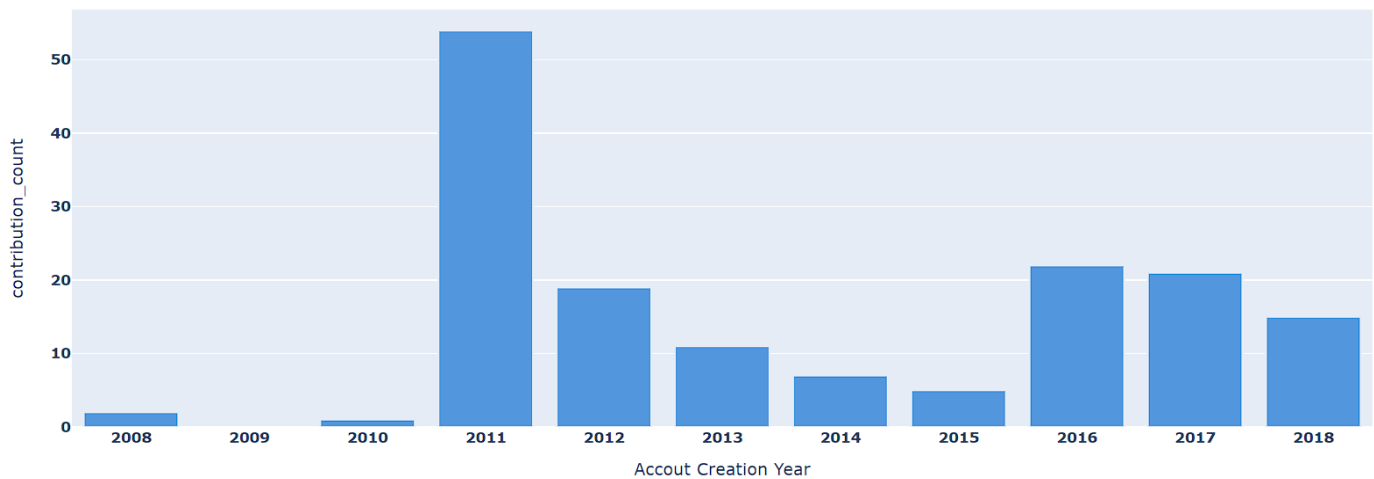
2018-12-19	244
2018-07-03	190
2018-12-20	150
2018-07-22	137
2018-07-24	128



Jul 03, 2018.

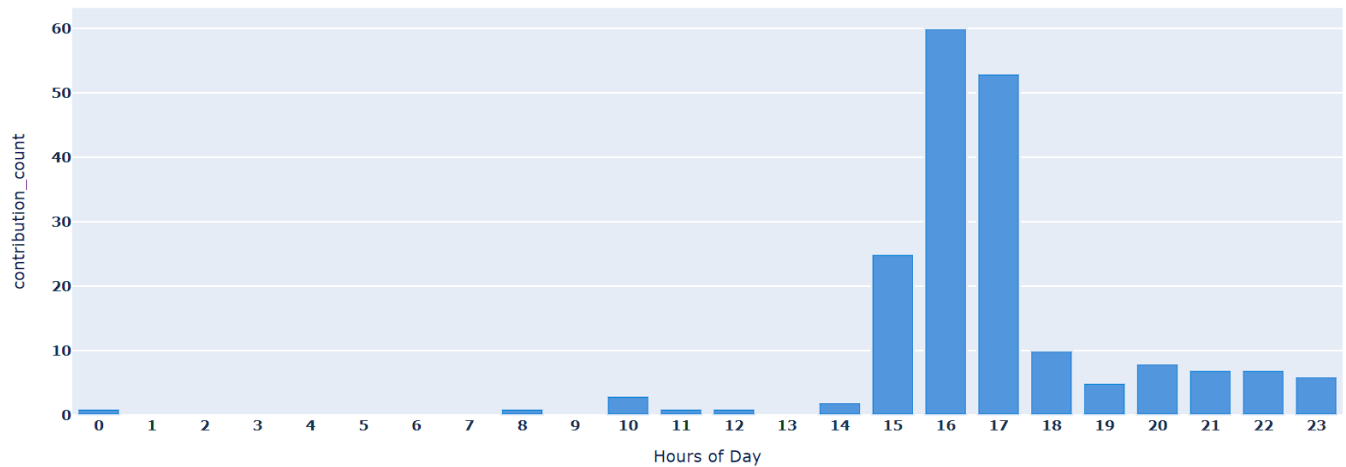
- **190 contributions** were made by **98 users**.

The creation year of the accounts contributed on the peak day (2018-07-03)



- The most active hours are (15,16,17).

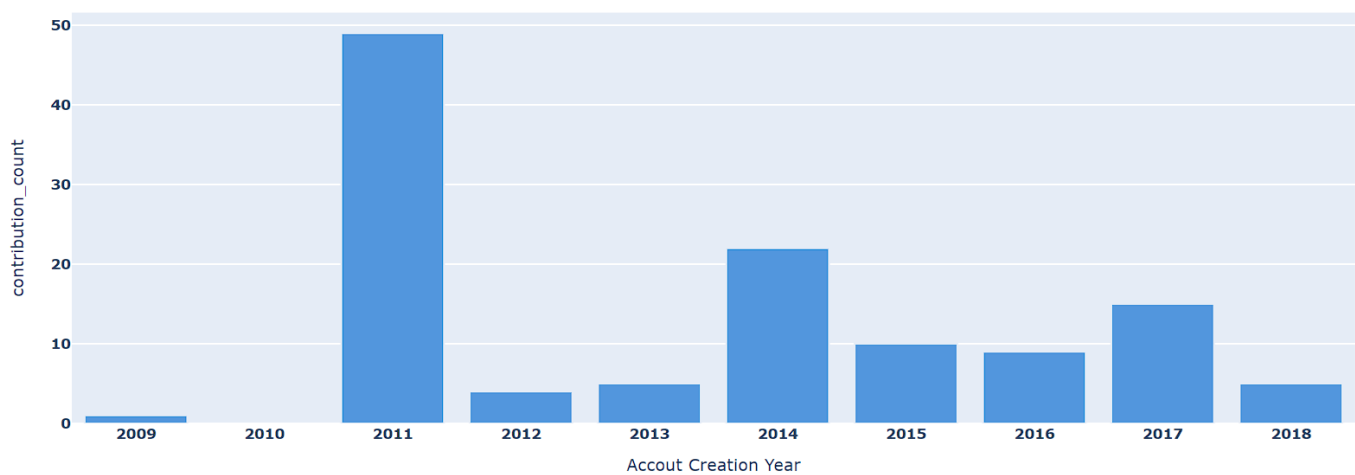
Number of contributions Comment/Submission in day hours



Jul 22,2018.

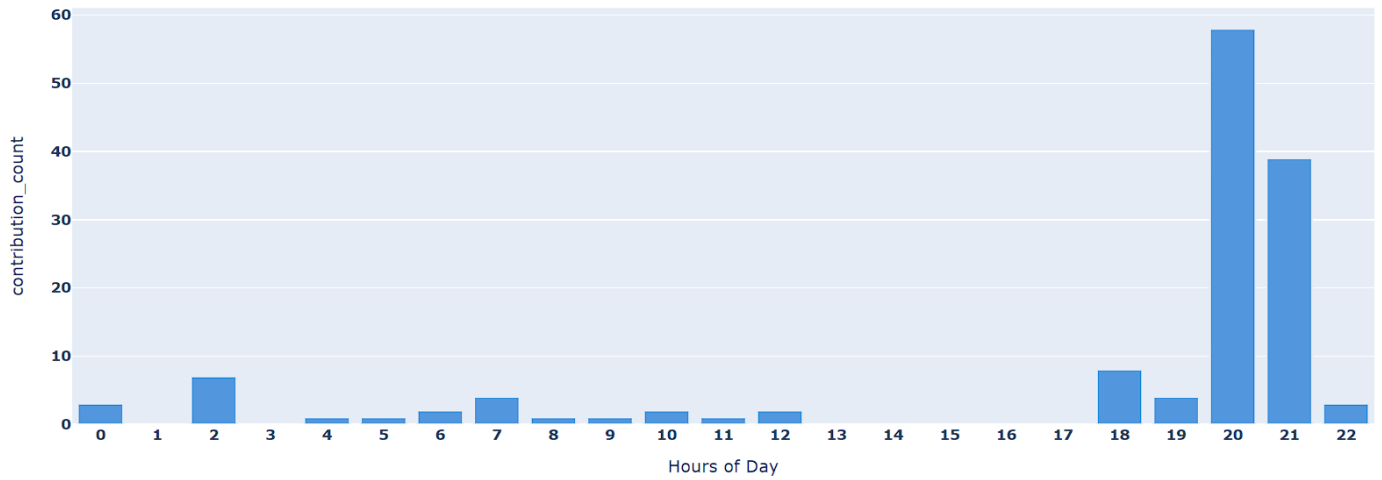
- **137 contributions** were made by **50 users**.

The creation year of the accounts contributed on the peak day (2018-07-22)



- The most active hours are (20,21).

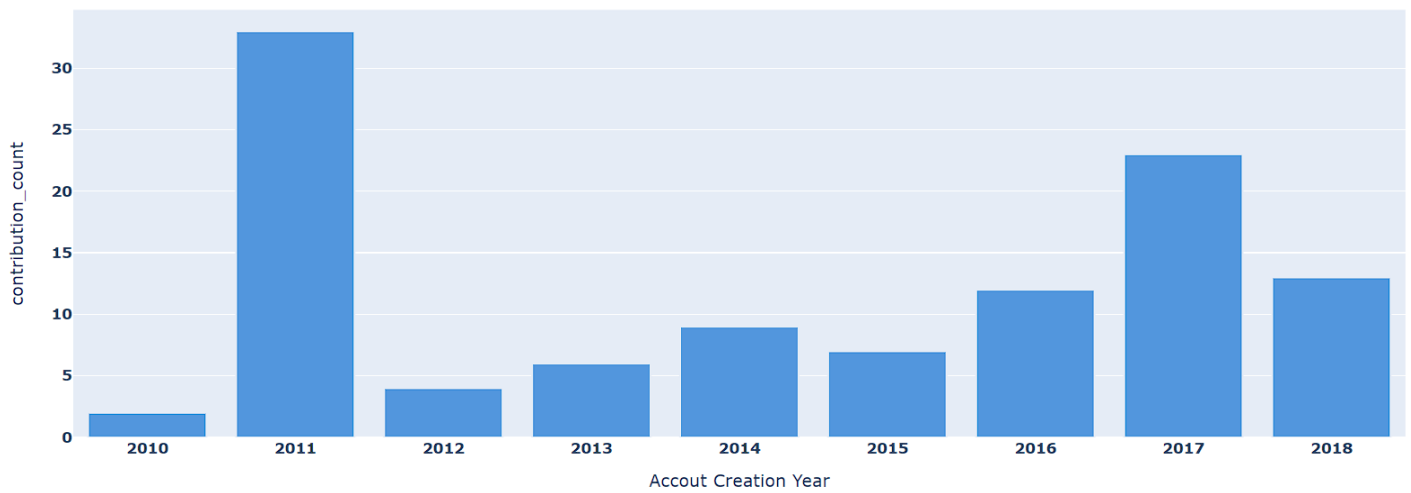
Number of contributions Comment/Submission in day hours



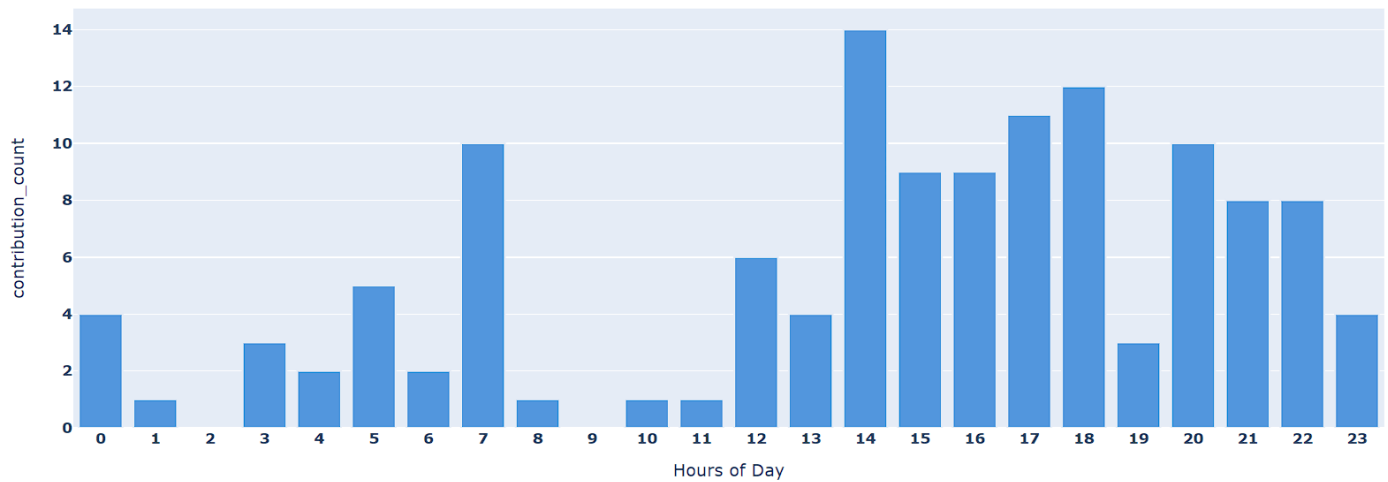
Jul 24,2018

- **128 contributions** were made by **79 users**.

The creation year of the accounts contributed on the peak day (2018-07-24)



Number of contributions Comment/Submission in day hours

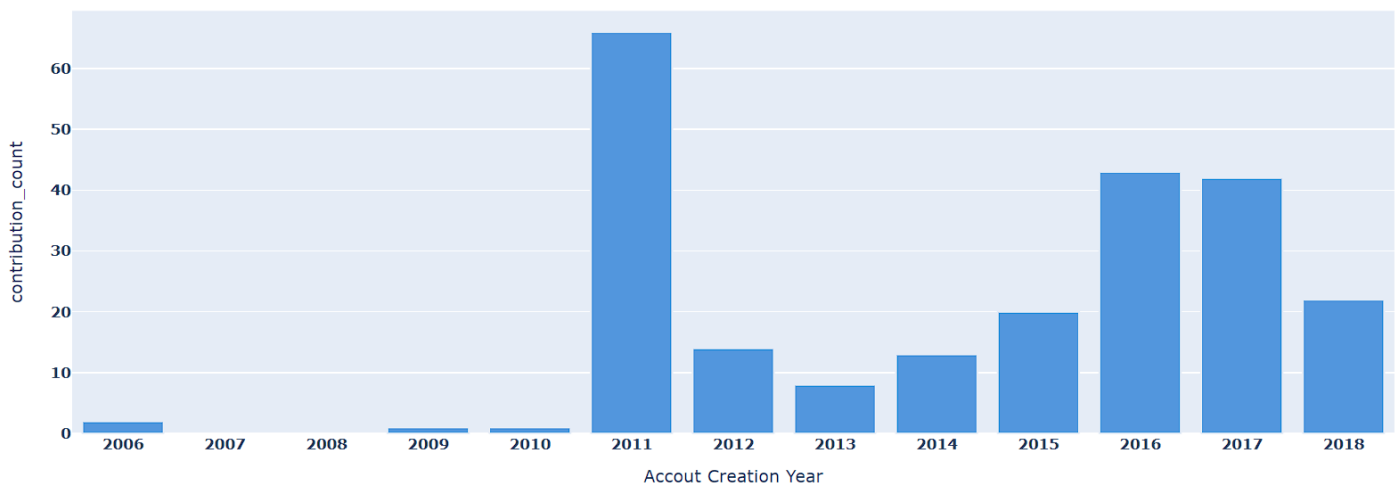


- Most hours are active.

Dec 19,2018

- **244 contributions** were made by **96 users**.

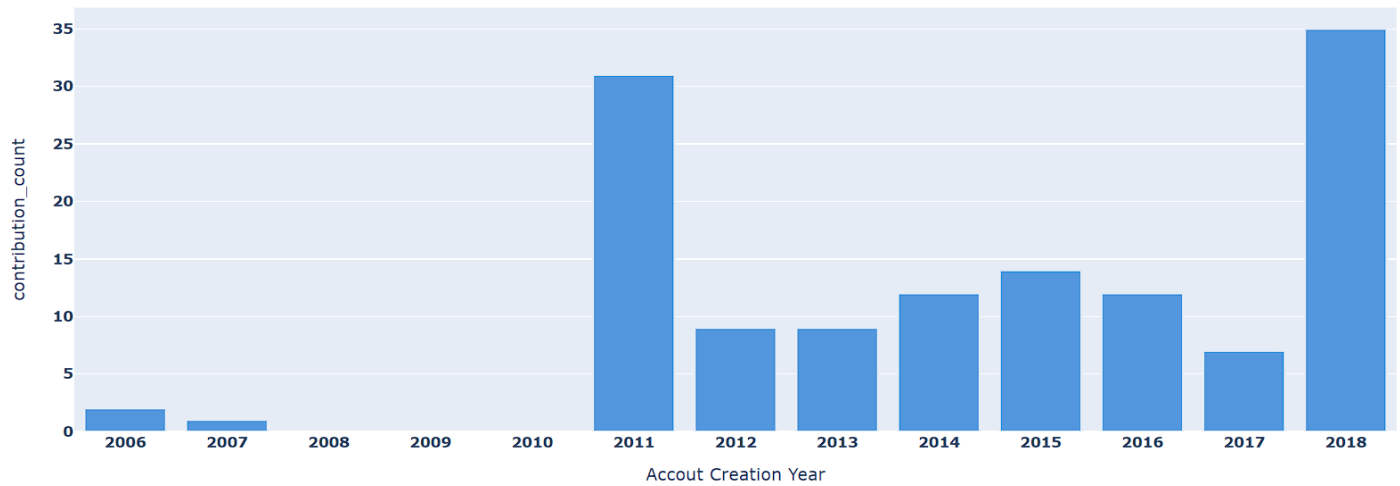
The creation year of the accounts contributed on the peak day (2018-12-19)



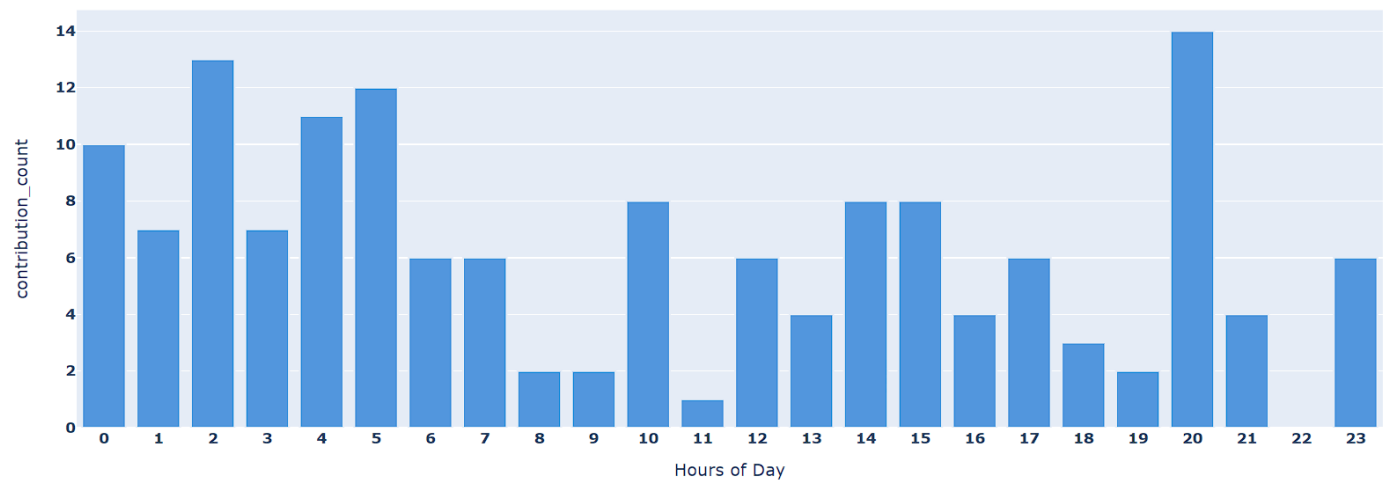
Dec 20,2018.

- **150 contributions** were made by **94 users**.

The creation year of the accounts contributed on the peak day (2018-12-20)



Number of contributions Comment/Submission in day hours

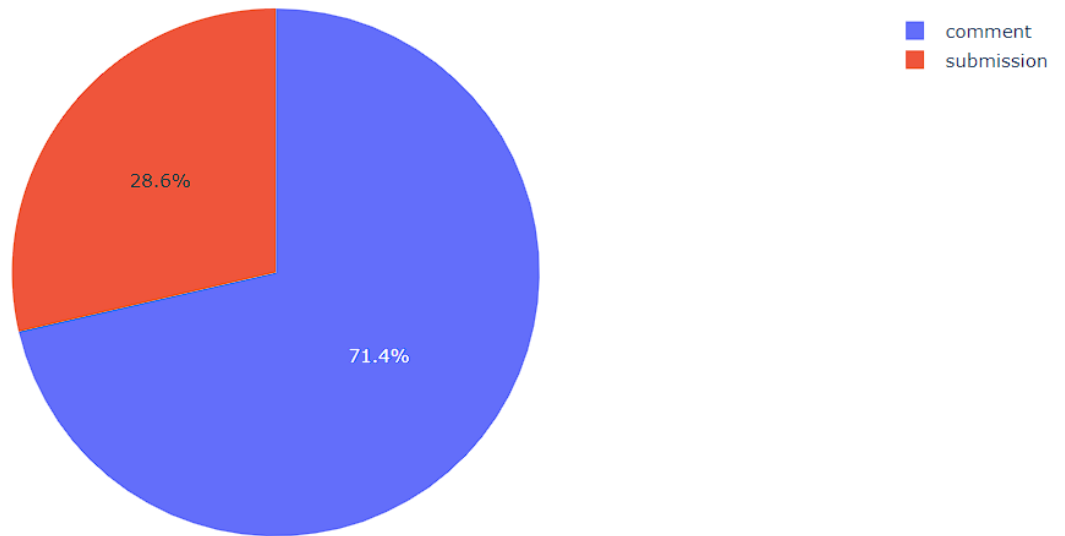


Exploratory Data Analysis

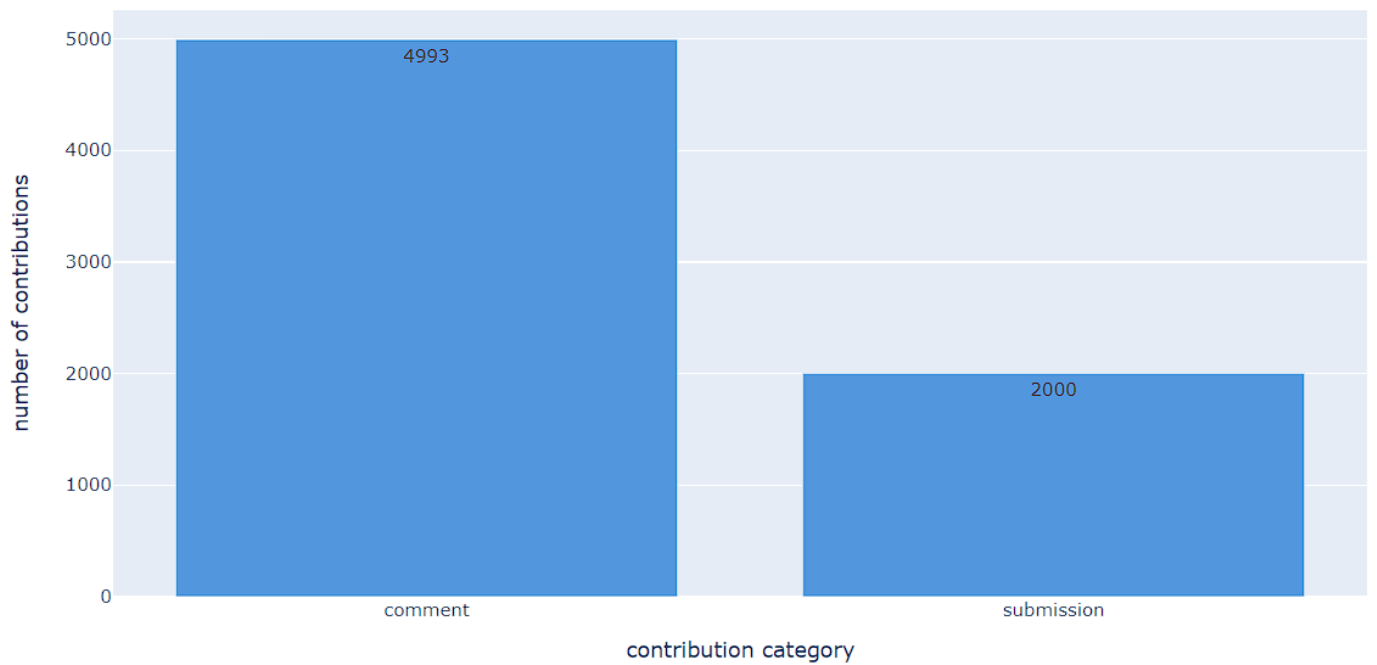
Reddit Contributions (Comments / Submissions)

The # of submissions VS the # of comments

Comment or Submission



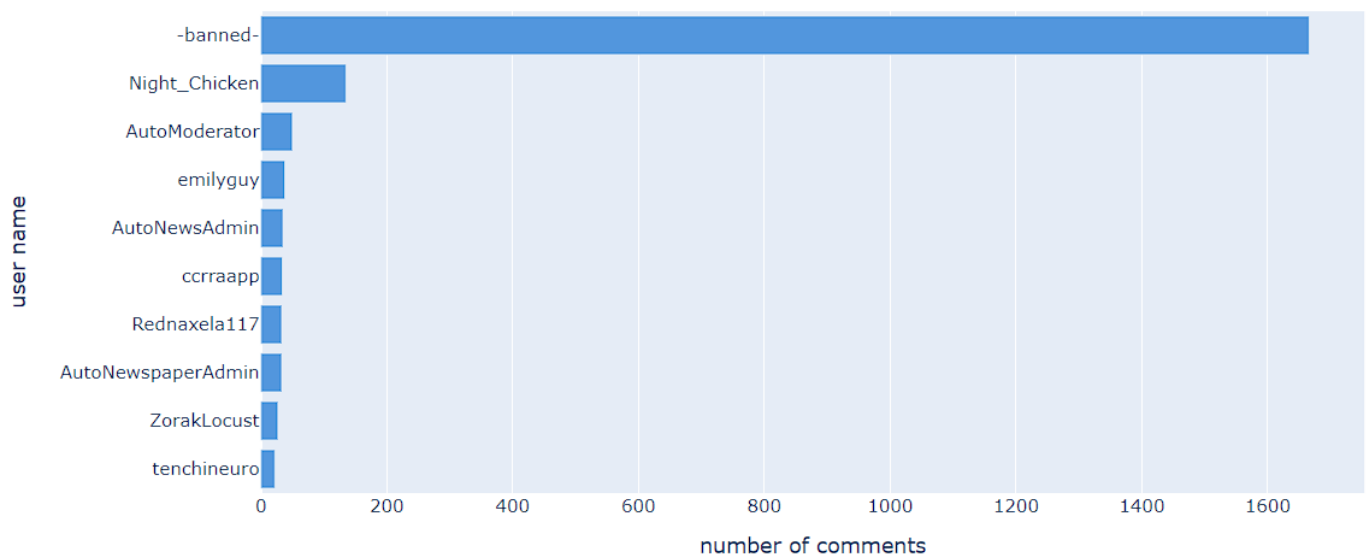
Comment or Submission



Most contributed user

	index	author
0	-banned-	17396
1	AutoModerator	1679
2	5th_Law_of_Robotics	298
3	CelebBattleVoteBot	282
4	Support_Johnny_Depp	256
5	DerHander	237
6	fluidmoviestar	200
7	empatheticapathetic	114
8	AutoNewsAdmin	105
9	wiklr	104

Most commented user in 2018



- 13.55% of comments are from banned users.

Further Investigate The Most Commented Users In 2018

AutoModerator

AutoModerator is a system built into reddit that allows moderators to define "rules" (consisting of checks and actions) to be automatically applied to posts in their subreddit.

- **Automoderator** made **50 Comments in 2018** on those subreddits:
 - r/DC_Cinematic 12
 - r/JerkOffToCelebs 6
 - r/worldnews 4
 - r/AskReddit 4
 - r/Celebs 3
 - r/videos 2
 - r/unpopularopinion 2
 - r/youtube 2
 - r/celebsnaked 1
 - r/SubredditDrama 1

NightChicken

- **NightChicken** made **135 comments in 2018** in one subreddit
 - r/Celebs 135
- With this **text**:
 - What? What did she hear? 121
 - What? What did she hear? 4
 - Exactly.\n\n​ 1
 - What? Thank you! 1
 - Yes! What? 1
- **104 comments** were made on 2018-08-29 in only 26 minutes.

emilyguy

- **emilyguy** made 38 contributions in 2018
 - submission 34
 - comment 4
- Int those subreddits:
 - r/gentlemanboners 19
 - r/Celebs 9
 - r/celebsnaked 4
 - r/celebsfw 3
 - r/WatchItForThePlot 2
 - r/CaraDelevingne 1
- With those texts:
 - Amber Heard 31
 - The Informers (2008) 2
 - The Playboy Club (2011) 1
 - Amber Heard and Jessica Alba 1
 - Amber Heard has an amazing body 1
 - with Amber Heard 1
 - The Informers 1

ccrraapp

- **ccrraapp** made 34 contributions in 2018
 - submission 27
 - comment 7
- Int those subreddits:
 - r/geekboners 19
 - r/DCEUboners 14
 - r/gentlemanboners 1
- With those texts:
 - [Aquaman] Amber Heard 16
 - Amber Heard 10
 - etc...

AutoNewspaperAdmin

- **AutoNewspaperAdmin** made **33 Submissions in 2018** in one subreddit
 - r/AutoNewspaper 33

Rednaxela117

- **Rednaxela117** made **33 contributions in 2018**
 - submission 25
 - comment 8
- in one subreddit
 - r/Celebs 11
 - r/SexyWomanOfTheDay 10
 - r/gentlemanboners 8
 - r/PrettyGirls 2
 - r/goddesses 1
 - r/celebritylegs 1
- In those dates

	created_at	n_contributions
0	2018-02-22	8
3	2018-05-01	8
1	2018-02-23	2
2	2018-03-28	2
4	2018-05-02	2
13	2018-12-29	2
5	2018-05-03	1
6	2018-05-25	1
7	2018-07-10	1
8	2018-07-22	1

Check whether the users with the most contributions are mod⁵, gold⁶ or having a verified email

- A list with most 24 contributed authors was made.
- Checked for the most negative comments users.
- The most negatively commented users are ('Night_Chicken', 'AutoModerator', 'emilyguy', 'AutoNewsAdmin', 'ccrraapp', 'AutoNewspaperAdmin', 'Rednaxela117', 'ZorakLocust', 'RuleIV', 'tenchineuro', 'jef f98379', 'InfiniTitans', 'vonmark955', 'Chronos2016', 'ZadocPaet', 'nobodycares 65', 'bundt_trundler', 'Queen1110', 'Count_Fapula1', 'MightUlt-7', 'FlexOutlaw', 'sagar7854', 'NaveHarder', 'Ezio9619').
- Those are the characteristics of the 24 users:
 - Has_verified_email
 - True 21
 - False 3
 - Is_mod
 - False 18
 - True 6
 - Is_gold
 - False 17
 - True 7
 - Is_banned
 - False 20
 - True 4
 - Comment_karma
 - Min → - 10
 - Max → 52848
 - Mean → 3940.28
 - Median → 24
 - Link_karma
 - Min → 2
 - Max → 1870964
 - Mean → 218104.72
 - Median → 12119.5
 - Banned_unverified
 - others 17
 - banned 4
 - unverified 3
 - Creation_year
 - others 12
 - banned 4
 - 2018 2

⁵ [Moderator](#): A moderator is just a regular redditor like you except with a few humble duties within a particular community

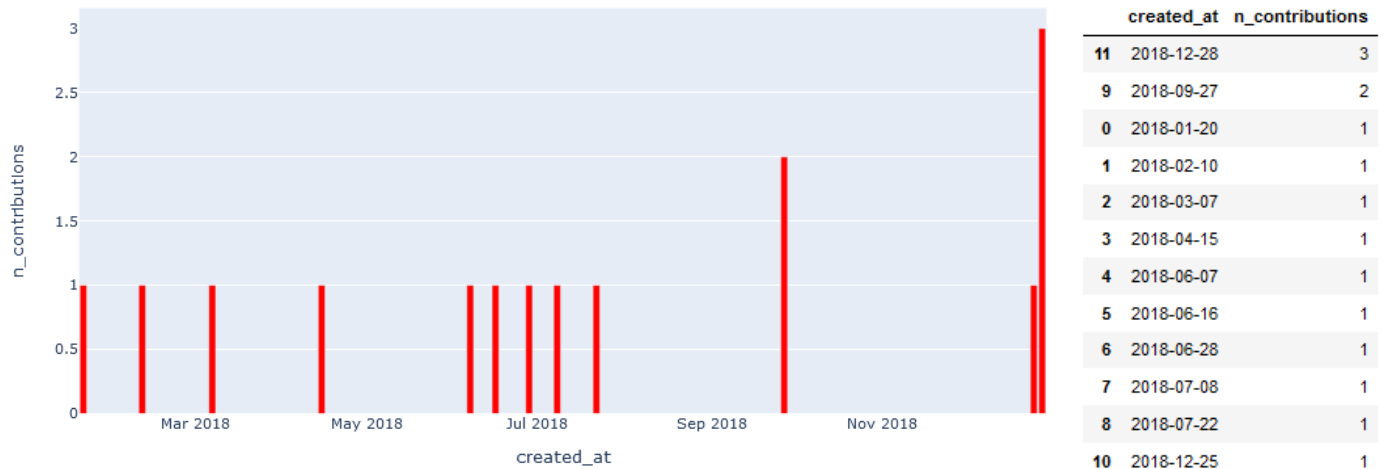
⁶ [Gold](#) Reddit Gold was a premium membership, which allowed Reddit users a variety of additional features.

Investigate the text column

Lets first check for the users using the word 'f*ck

- This word is repeated 225 times.
- 3.2% of contributions contain this word.
- The authors of these submissions have the same submission text (contains f*ck) 15.

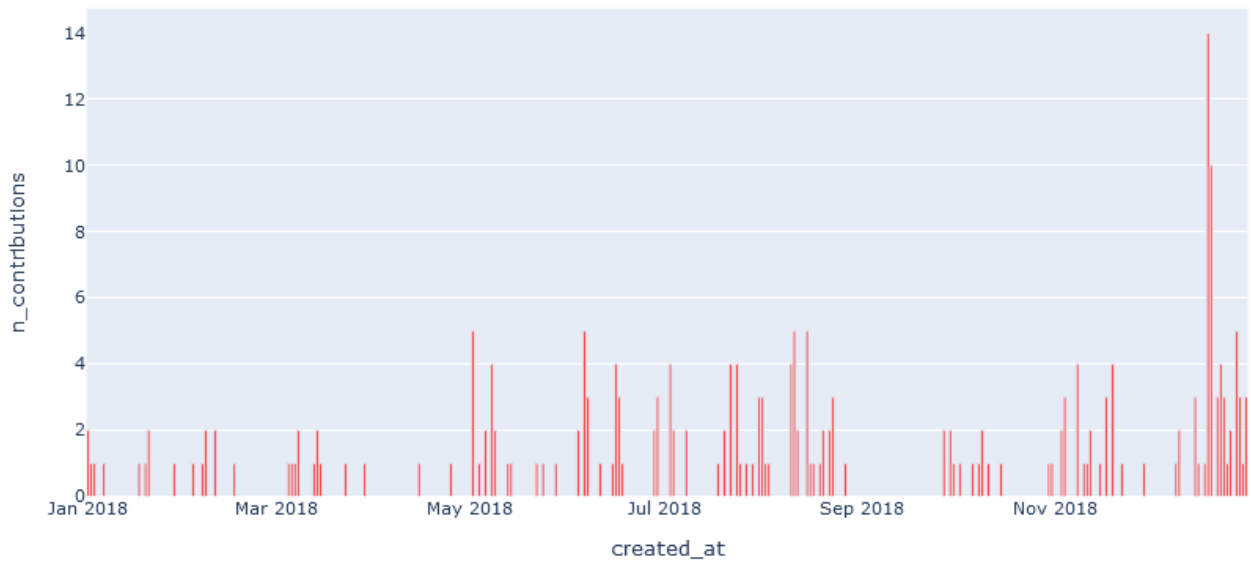
The number of submissions with the word "F*CK" in 2018



- Users:
 - -banned- 65
 - Count_Fapula1 4
 - DariJC 3
 - TocTheElder 2
 - dirtydegrading 2
 - TEDHARDYLEEN 2
 - RedditZacuzzi 2
 - chi_dist90 2
 - cornylamygilbert 2
 - arsenalmat 2
- Comment or submission
 - comment 206
 - submission 19
- Subreddits:
 - r/JerkOffToCelebs 54
 - r/gentlemanboners 18
 - r/WatchItForThePlot 17
 - r/movies 14
 - r/Celebs 12
 - r/celebJObuds 11

- r/MensRights 10
- r/celebnsfw 10
- r/DC_Cinematic 9
- r/goddesses 8
- Dates:
 - 2018-12-19 14
 - 2018-12-20 10
 - 2018-12-28 5
 - 2018-06-06 5
 - 2018-08-11 5
 - 2018-05-02 5
 - 2018-08-15 5
 - 2018-07-24 4
 - 2018-07-03 4
 - 2018-05-08 4

The number of "F*CK" contributions in 2018



- Top users who used f*ck word
 - Count_Fapula1 (4)
 - DariJC (3)

Count_Fapula1:

- used the word f*ck 4 times
- Negative Comments
- Has 16 contributions:
 - comment 13
 - submission 3
- In those dates:

- 2018-12-05 4
- 2018-12-20 4
- 2018-12-26 2
- 2018-12-18 2
- 2018-12-23 1
- 2018-12-14 1
- 2018-12-29 1
- 2018-12-24 1

DariJC:

- used the word f*ck 3 times
- **Negative Comments**
- Has 11 comments in two subreddits:
 - r/JerkOffToCelebs 9
 - r/celebJObuds 2
- In those dates
 - 2018-09-27 2
 - 2018-11-19 2
 - 2018-11-04 2
 - 2018-12-31 1
 - 2018-01-20 1
 - 2018-08-29 1
 - 2018-08-27 1
 - 2018-11-14 1

Check for the repeated text

```

Amber Heard
1045
[deleted]
171
What? What did she hear?
121
[removed]
52
[Aquaman] Amber Heard
47
Amber Heard - The Informers
20
Amber heard
14
amber heard
13
Your submission has been automatically removed for not including a valid category/subcategory tag. Tags are
essential to an optimal browsing experience for our users.\n\nSince your post was removed automatically, you
are free to resubmit it with an appropriate tag. You can find the tagging guide [here] (/r/DC_Cinematic/wiki/

```

- "Amber Heard" only repeated more than 1000 times as a full contribution.
- A lot of contributions were deleted or removed.
- What? What did she hear? repeated 121 times we will also find What did she hear? .
- [Aquaman] Amber Heard repeated 47 times
- Amber Heard - The Informers repeated 20 times.
- There are a lot of weird texts repeated a lot like:

"Well I'm going to start doing preliminary emails to voice my displeasure that a DV perp is even coming back to make more millions.\n\nAnd I won't be watching that shit or buying it either\n\nEdit: ok so this is who I emailed\n\njessica.zacholl@warnerbros.com\n\nShe's in WB's Media and Press Dept.\n\nAnd this is what I said \n\nSubject: Amber Heard in Aquaman 2, why?\n\nJust curious why a studio such as WB would employ a domestic violence perpetrator for their big release? I've been told Hollywood is progressive, but apparently you can abuse your spouse and that's ok? Well I will not be seeing this movie. I get so tired of the talking about how domestic violence is bad, but it seems all of the movie industry just sits silent. #MeToo indeed."

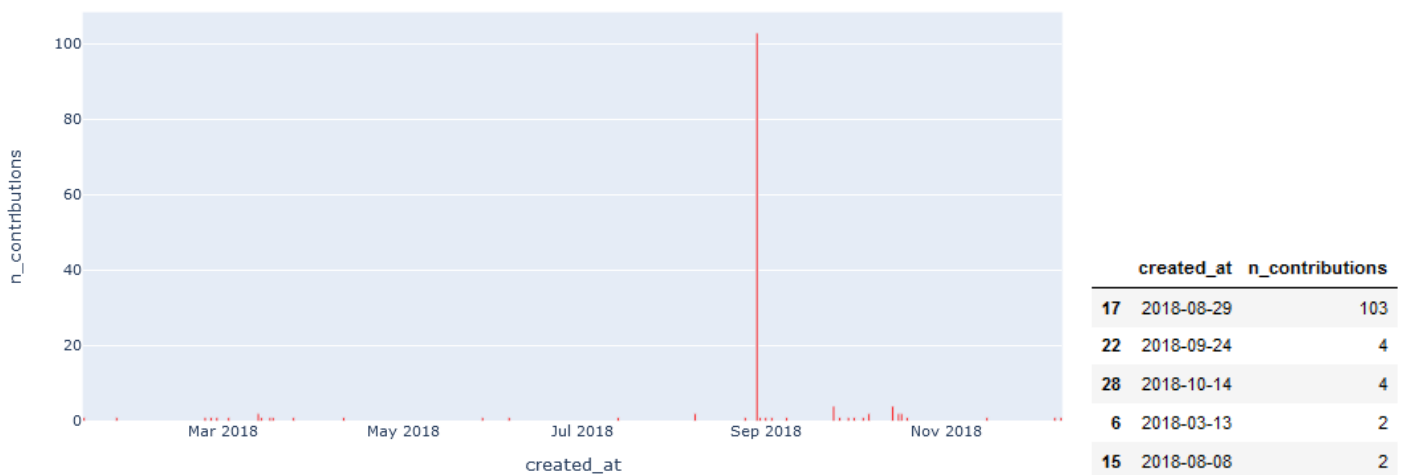
What? What did she hear?

- **148 comments** on **those subreddits**:
 - r/Celebs 131
 - r/goddesses 6
 - r/celebnsfw 2
 - ...

From those **authors**:

- Night_Chicken 128
- ..

The number of "What? What did she hear?" contributions in 2018



- **103 contributions**, all of them are **comments**, with the same text in one day **29-08-2018** by one user **Night_Chicken** in one subreddit **r/Celebs** in only **27 minutes**.

[Aquaman] Amber Heard

- **30 Contributions**
 - submission 18
 - comment 12
- on **those subreddits:**
 - r/DC_Cinematic 5
 - r/news 3
 - r/newstweetfeed 2
 - r/worldnews 2
 - r/Elon_musketeers 2
 - r/movies 2
 - ...

From those **authors:**

- -banned- 5
- BSRussell 2
- ZorakLocust 2
- jeff98379 2
- iDevice_Help 2
- ...

Amber Heard - The Informers

- **27 Submissions.**
- on **those subreddits:**
 - r/WatchItForThePlot 8
 - r/celebsnaked 3
 - r/celebsfw 3
 - r/Celebsnudess 2
 - r/Amber_Heard 2
 - r/PopCultureGifs 2
 - r/CelebSexScenes 2
 - ...

From those **authors:**

- -banned- 9
- Ezio9619 8
- vonmark955 4
- vonjobi951 2
- GRJR721 2
- vonjobi956 1
- CelebsGW 1

Ezio9619

- 8 submissions in those subreddits:
 - r/WatchItForThePlot 3
 - r/celebsnaked 3
 - r/celebsfw 1

- r/Celebhub 1
- In those dates:
 - 2018-08-14 4
 - 2018-07-24 4

Amber Heard

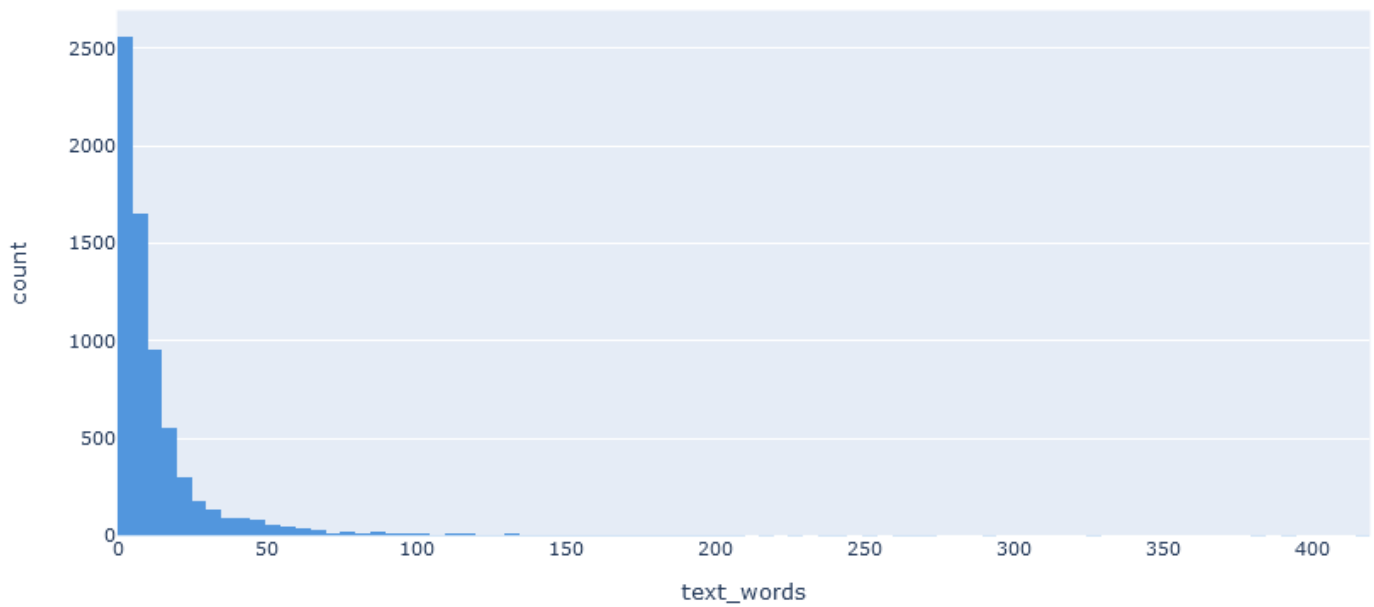
- **2213 contributions**
 - submission 2000
 - comment 213
- on **those subreddits:**
 - r/Celebs 350
 - r/gentlemanboners 296
 - r/DCEUboners 87
 - r/DC_Cinematic 85
 - r/goddesses 79
 - ...
- From those users
 - -banned- 829
 - AutoNewsAdmin 35
 - emilyguy 34
 - AutoNewspaperAdmin 33
 - ccraapp 27
 - ...

F*ck Amber Heard

- **4 comments banned users** on **those subreddits:**
 - r/movies 2
 - r/goddesses 2

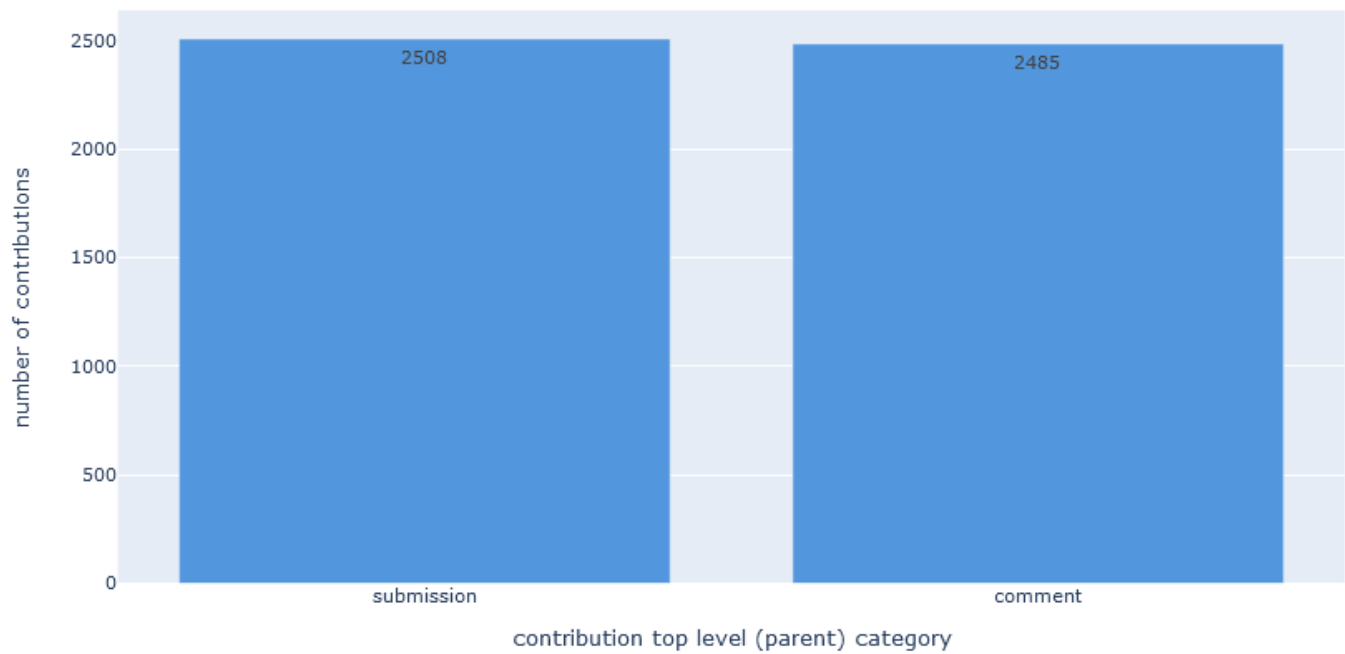
Check the number of text words

number of words in each contribution



Reddit Comments

Comment or Submission (Top Level of Contribution "Parent")



Reddit Submission Data

Investigating the Submission Text (Submissions with the most comments and replies)

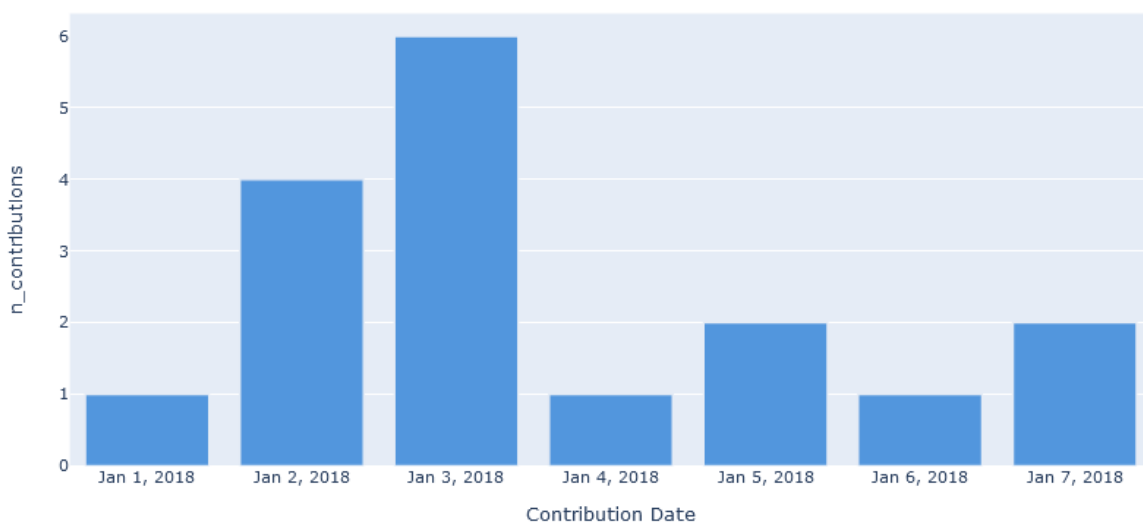
We can get the number of different submissions by looking only at the submissions dataframe, Also we can look at submission_text with the most interactions (repeated submission_text).

- amber_heard	2490
- DC_Cinematic	760
- amber_heard_received_death_threats_and_was	254
- amber_heard_the_informers	167
- just_a_friendly_reminder_that_domestic_abuse_is	102
- amber_heard_fans_upset_after_she_posted_a_racist	96
- johnny_depp_claims_ex_amber_heard_punched_him	95
- amber_heard_mirin_jason_momoa	77
- johnny_depp_accuses_amber_heard_of_shitting_in	76
- amber_heard_london_fields_2018	71
- first_poster_london_fields_amber_heard_billy_bob	69
- aquaman_actress_amber_heard_gets_called_racist	65
- aquaman_amber_heard	64
- new_aquaman_images_shows_jason_momoa_and_amber	63
- amber_heard_film_london_fields_suffers_one_of_the	61
- amber_heard_has_an_amazing_body	60
- 2018_comiccon_red_carpet_gal_gadot_melissa	51
- amber_heard_stunning_in_red	47
- personally_i_think_it_takes_a_lot_of_skill_to	44
- amber_heard_in_the_informers	43

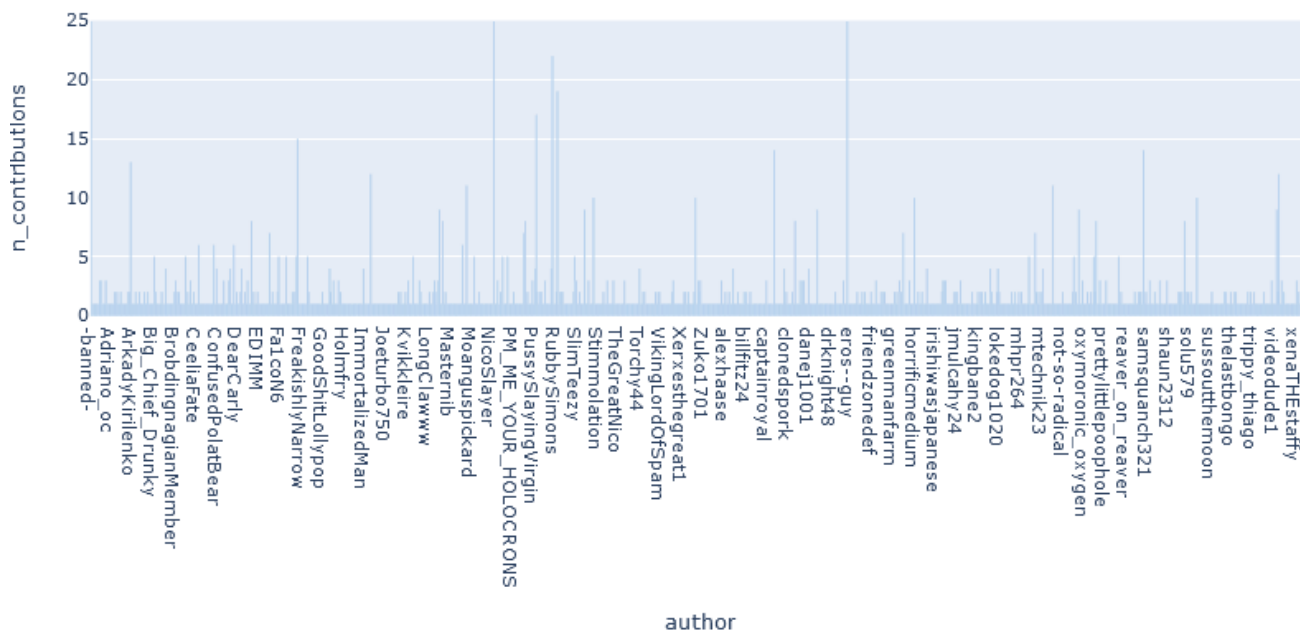
Amber_heard

- 1044 submissions.

The number of contributions/date on these submissions



The number of contributions per author on these submissions

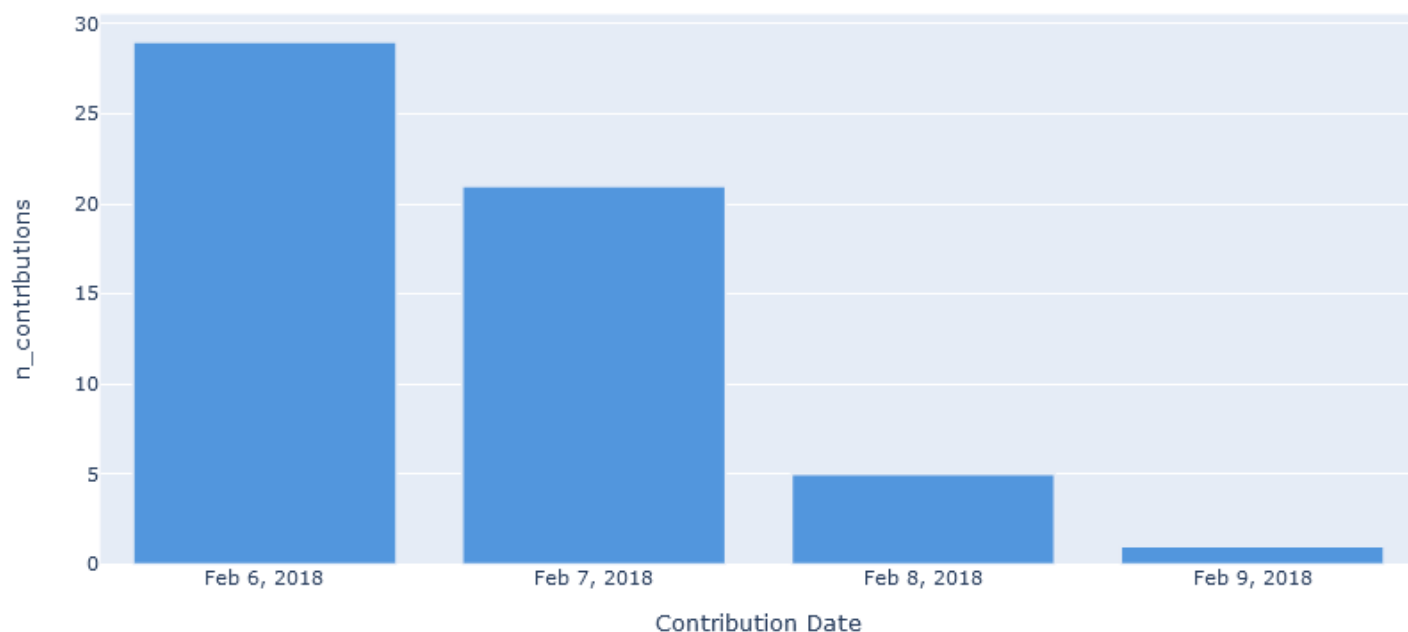


- Night_Chicken made 122 submissions.
- emilyguy made 34 submissions.

DC_Cinematic

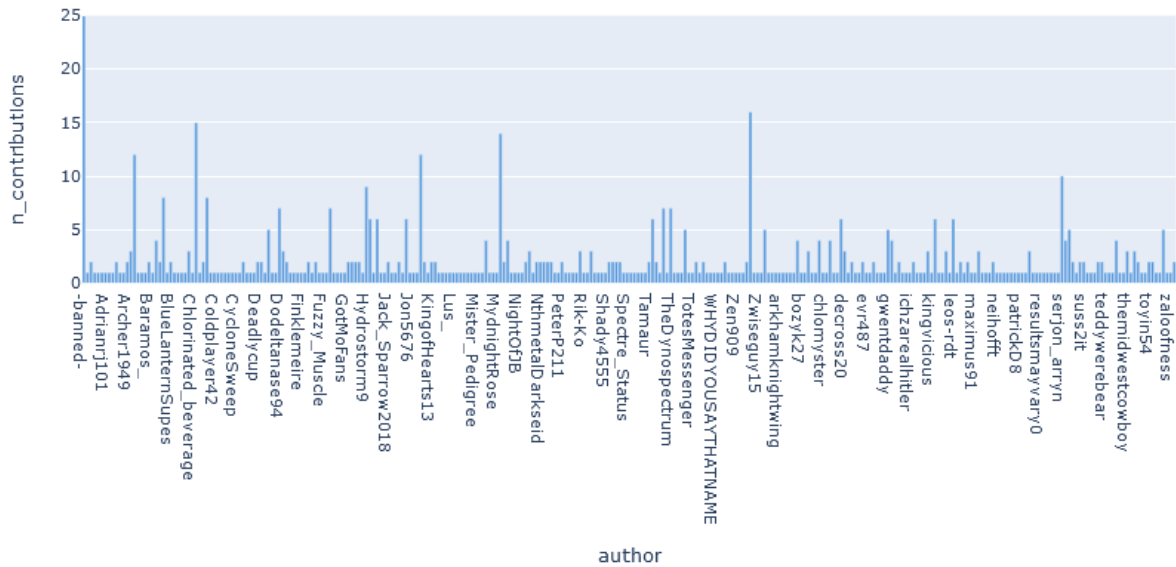
- 47 submissions.with 733 comments.

The number of contributions/date on these submissions



	author	n_contributions
0	-banned-	122
184	ZorakLocust	16
31	Chronos2016	15
115	NaveHarder	14
14	AutoModerator	12
93	KAIZOKUGARI23	12
270	serjon_arryn	10
78	Hydrostorm9	9
22	BatmanNewsChris	8
34	CliffordMoreau	8

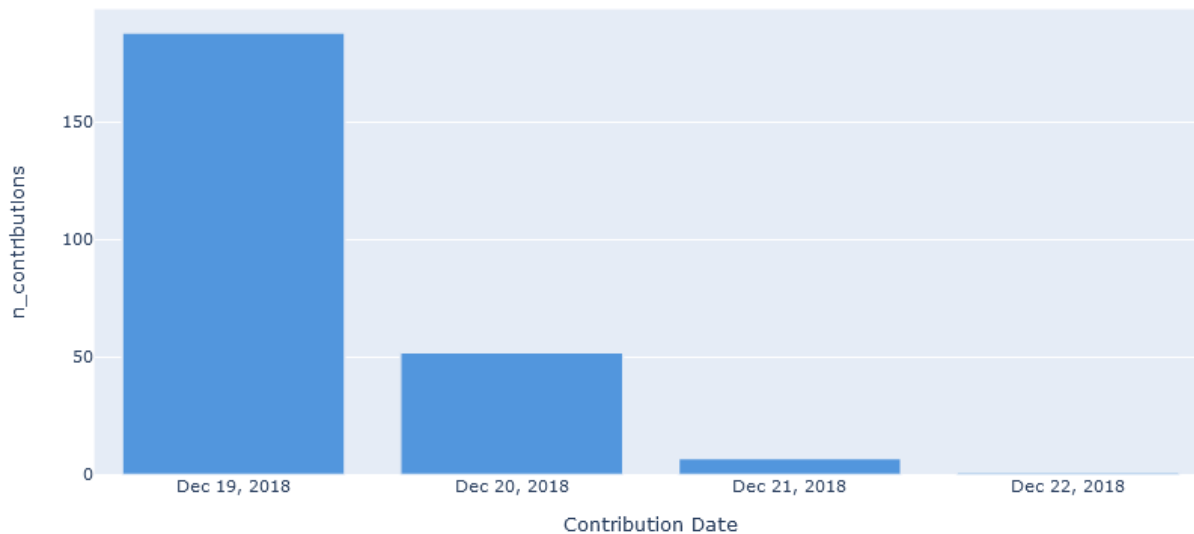
The number of contributions per author on these submissions



amber_heard_received_death_threats_and_was

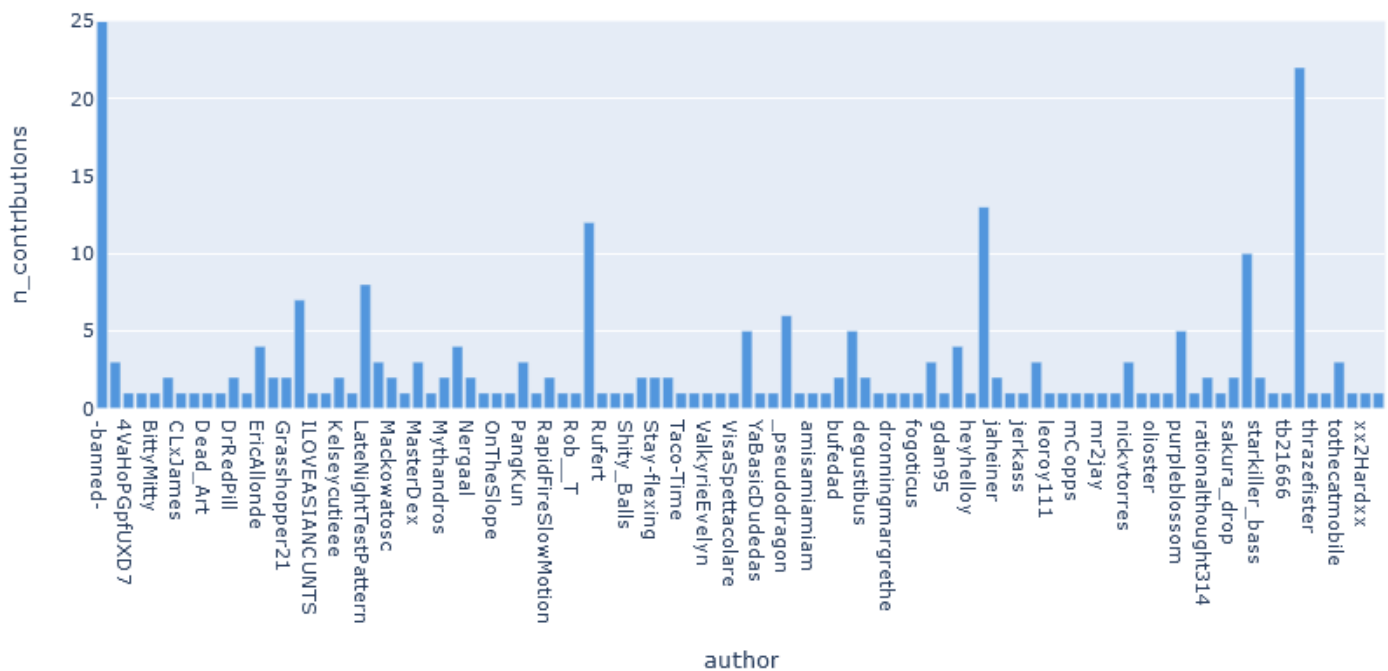
- one Submission with 253 comments.

The number of contributions/date on these submissions



	author	n_contributions
0	-banned-	30
91	tenchineuro	22
67	j3utton	13
37	Rogdozz	12
87	scyth3s	10
20	LateNightTestPattern	8
15	GreyFox860	7
52	_pseudodragon	6
82	purpleblossom	5
57	chambertlo	5

The number of contributions per author on these submissions

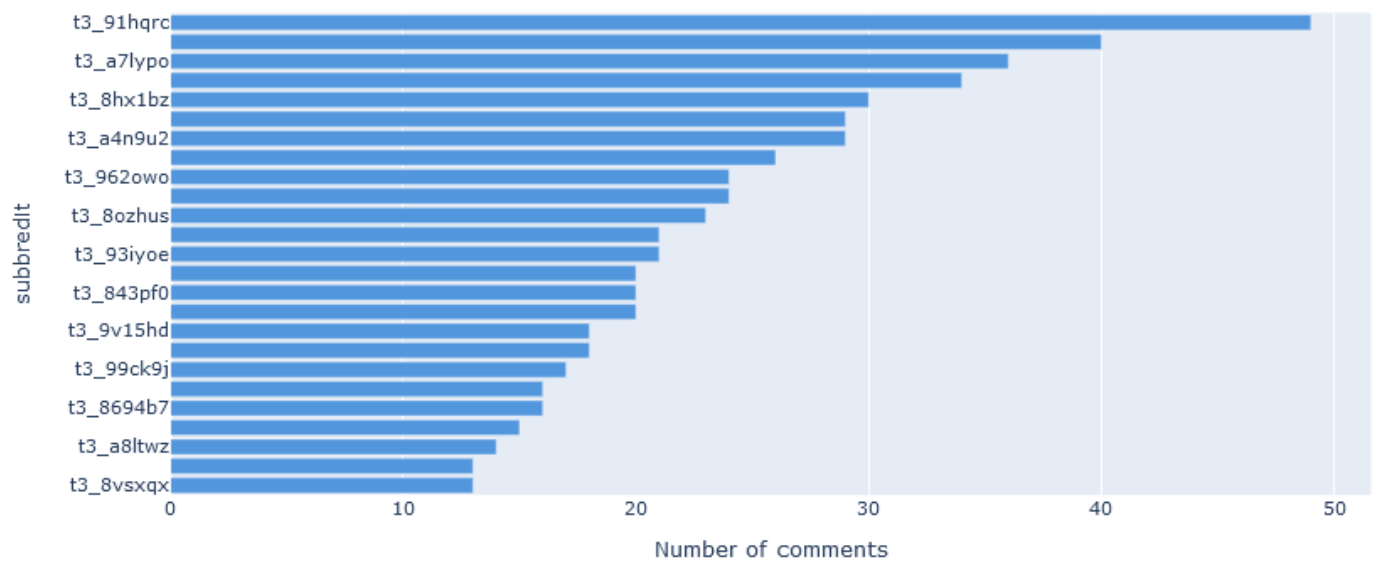


- tenchineuro made 22 comment in one day 19-12-2018 in one subreddit r/MensRights

Investigating the submissions with most comments(Top Level Comments)

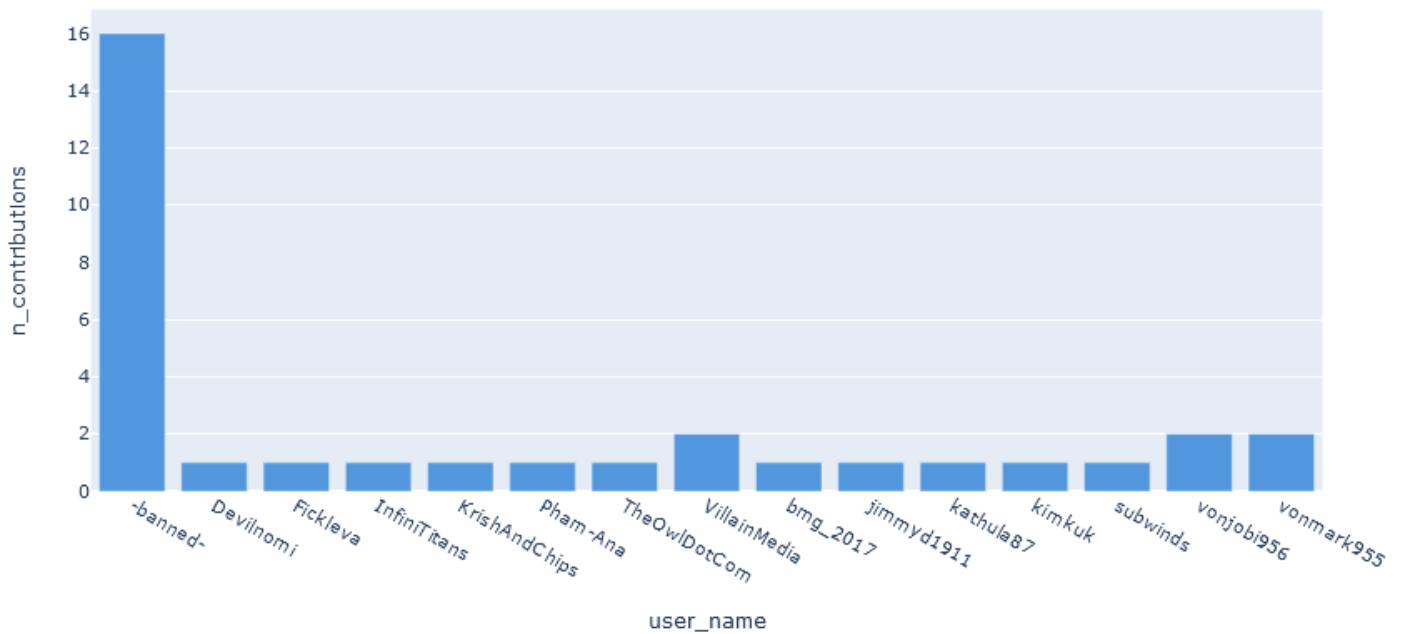
- t3_91hqrc 49
- t3_a6i1j4 40
- t3_a7lypo 36
- t3_9uzs60 34
- t3_8hx1bz 30

submissions with most comments (Top Level Comments)

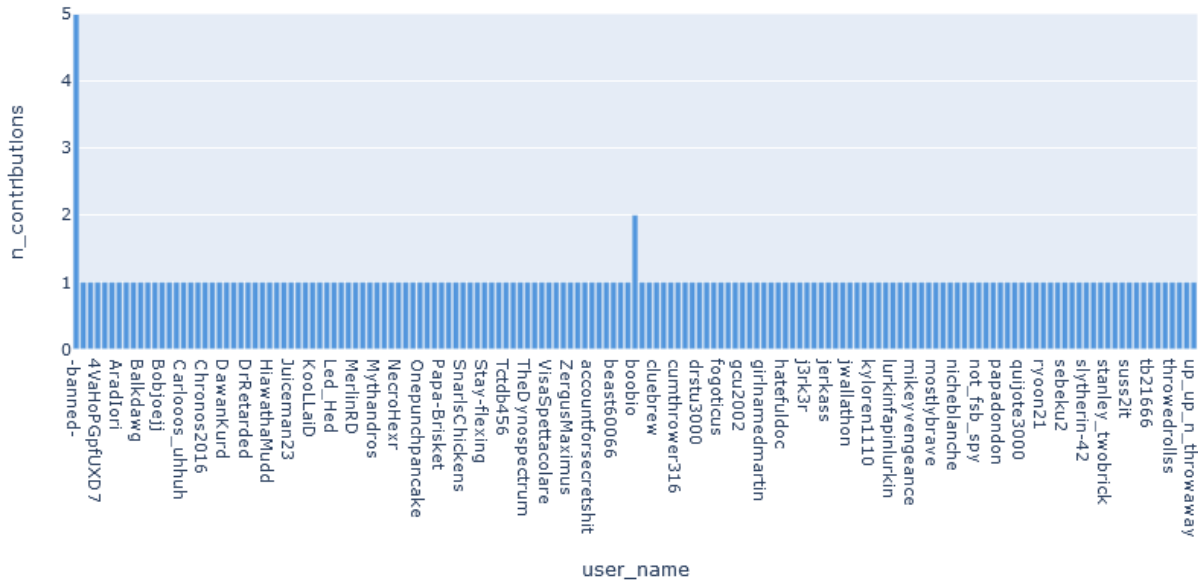


Check the top 5 submissions in 2018

The number comments per author on these submissions



The number of parent comments per author on these submissions

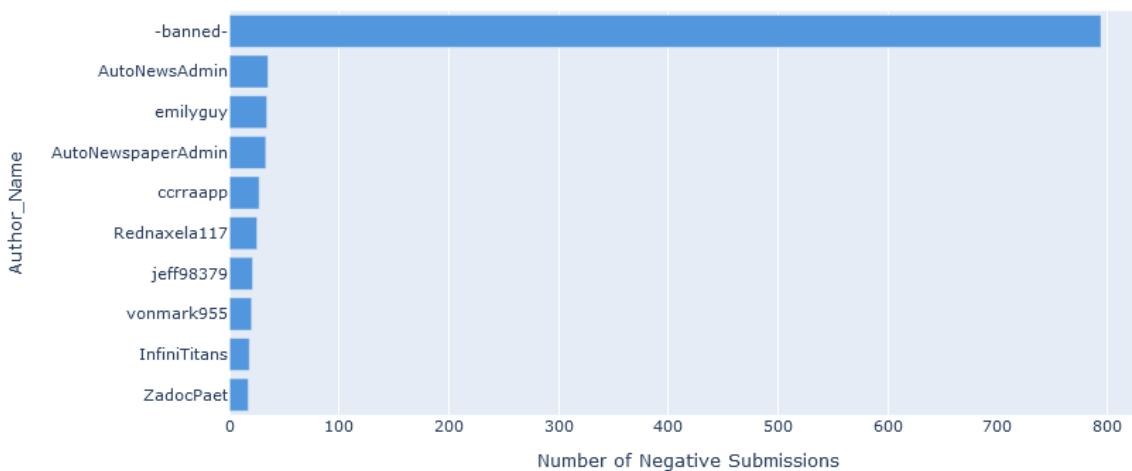


- There are 32 parent comments from banned accounts.

Investigating authors with the most submissions

-	-banned-	794
-	AutoNewsAdmin	35
-	emilyguy	34
-	AutoNewspaperAdmin	33
-	ccrraapp	27
-	Rednaxela117	25
-	jeff98379	21
-	vonmark955	20
-	InfiniTitans	18
-	ZadocPaet	17

Authors with most Submissions



Check whether the users with the most submissions are mod, gold or having a verified email

- -banned- 794
- AutoNewsAdmin 35
- emilyguy 34
- AutoNewspaperAdmin 33
- ccrraapp 27

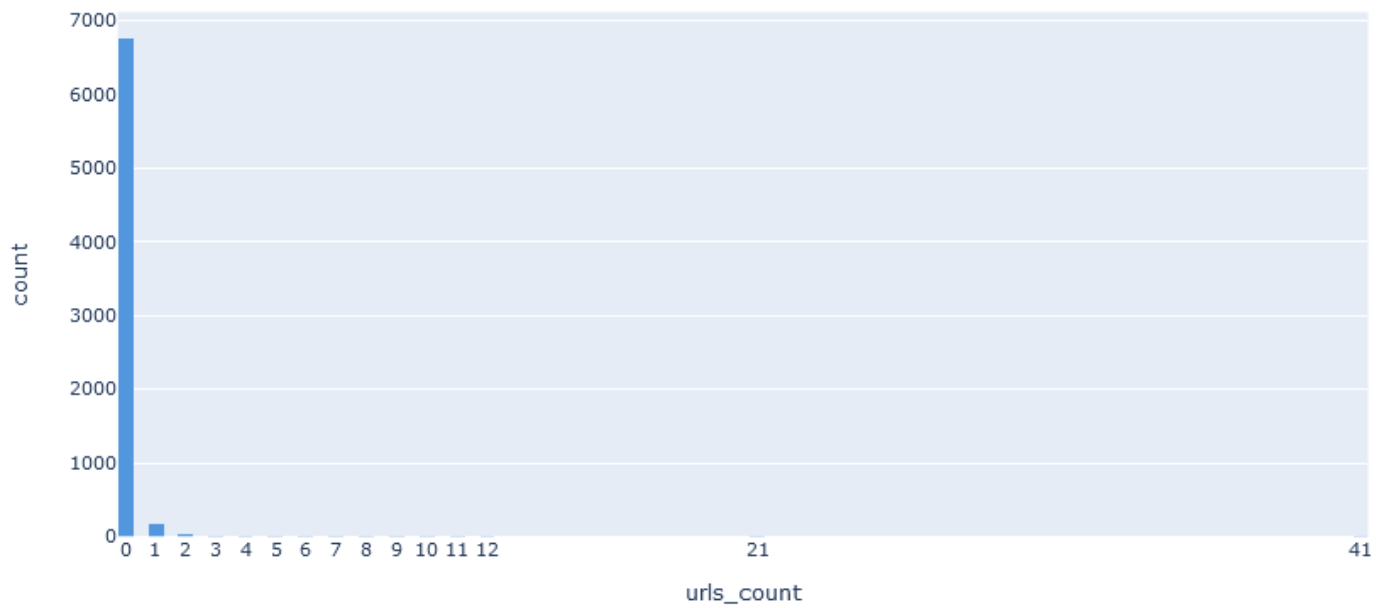
	user_name	has_verified_email	is_mod	is_gold	is_banned	comment_karma	link_karma	user_created_at	banned_unverified	creation_year
1520	FlexOutlaw	True	False	False	False	5217.0	154864.0	2010-09-25 18:36:46	others	others
3937	GRJR721	True	True	False	False	891.0	167792.0	2011-11-15 20:48:23	others	others

- The value counts of the users with the most submissions: has_verified_email
 - True 22
 - False 2
- The value counts of the users with the most submissions: is_mod
 - True 18
 - False 6
- The value counts of the users with the most submissions: is_gold
 - False 15
 - True 9
- The value counts of the users with the most submissions: is_banned
 - False 16
 - True 8
- Comment_karma
 - min -1.0
 - max 280938.0
 - mean 24275.38
 - Median 24275.38
- link_karma
 - min 242.0
 - max 2106386.0
 - mean 385104.31
 - median 385104.31
- The value counts of the users with the most submissions: banned_unverified
 - others 14
 - banned 8
 - unverified 2
- The value counts of the users with the most submissions: creation_year
 - others 12
 - banned 8
 - 2018 4

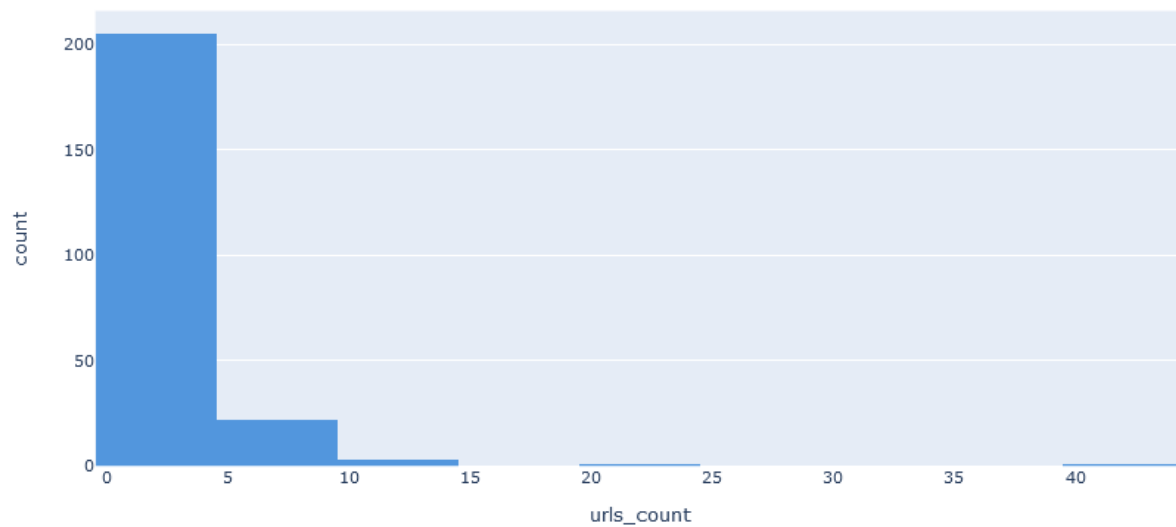
Submission URLS

- 113 urls.
 - [] 6761
 - ['https://t.co'] 22
 - ['https://www.reddit.com'] 21
 - ['https://youtu.be'] 10
 - ['https://www.youtube.com'] 9

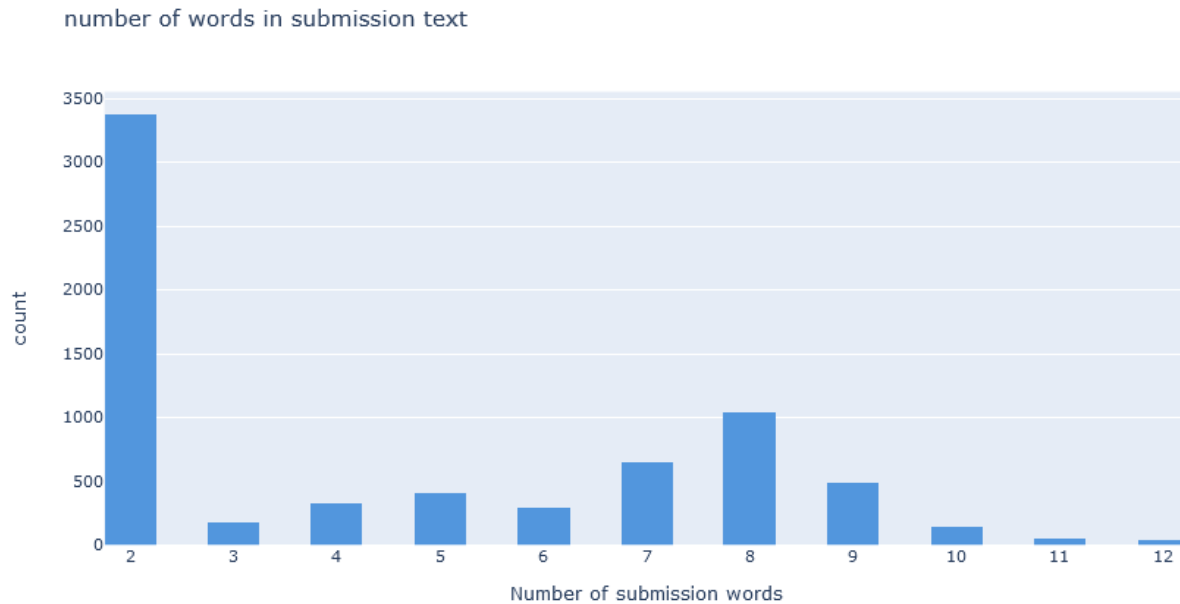
Count of the number of URLS in each Contribution



Count of the number of URLS in each Contribution



Check the number of submission text words



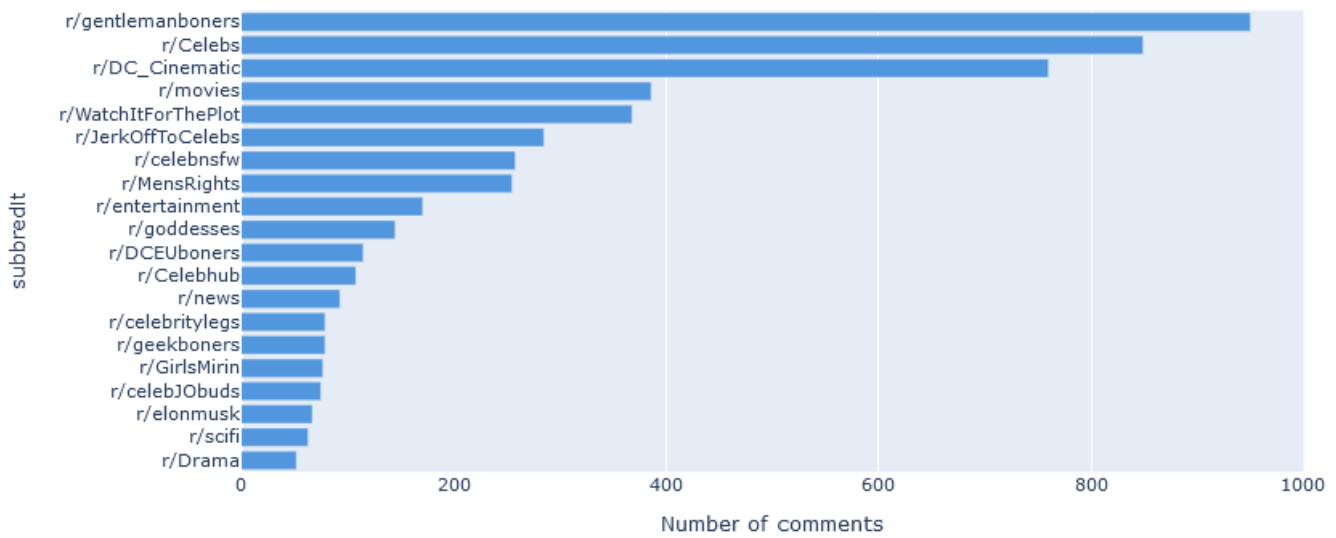
Subreddits

Most used Subreddits

- 302 unique subreddits.

	index	subreddit	
0	r/gentlemanboners	950	
1	r/Celebs	849	
2	r/DC_Cinematic	760	
3	r/movies	386	
4	r/WatchItForThePlot	368	
5	r/JerkOffToCelebs	285	
6	r/celebsfw	258	
7	r/MensRights	255	
8	r/entertainment	171	
9	r/goddesses	145	
10	r/DCEUboners	115	
11	r/Celebhub	108	
12	r/news	93	
13	r/celebritylegs	79	
14	r/geekboners	79	
15	r/GirlsMirin	77	
16	r/celebJOuds	75	
17	r/elonmusk	67	
18	r/scifi	63	
19	r/Drama	52	

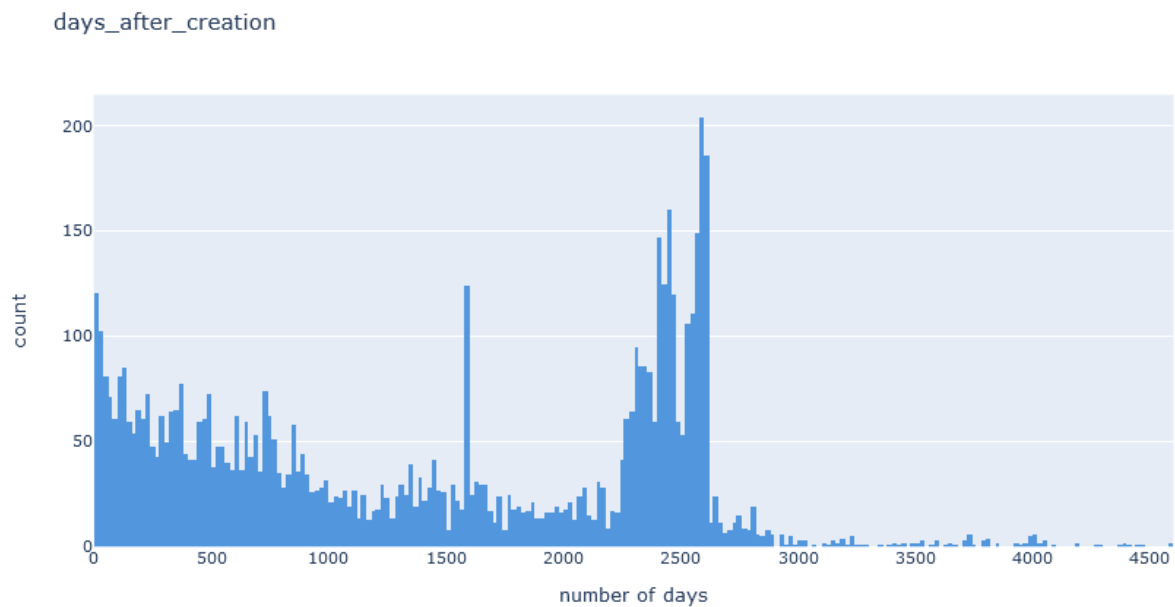
Most used subreddits



Merged Users Data with Comments/Submissions Data

Difference in time between creating the account and posting In seconds

- 1582.0 104
- 2599.0 37
- 2430.0 36
- 2449.0 35
- 487.0 31
- ...



Posting Duration After Account Creation

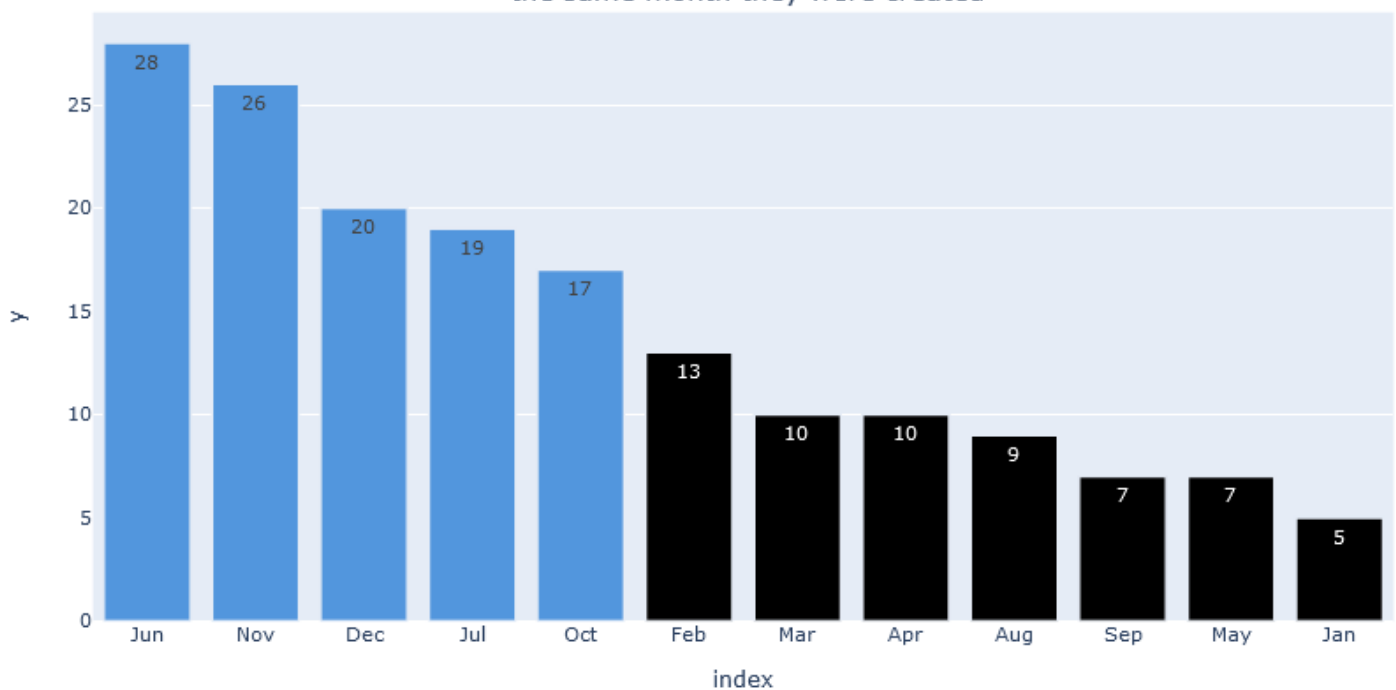
- The number of accounts posted the same day they were created was 24.
- The number of accounts posted the same week they were created was 62.
- The number of accounts posted the same month they were created was 171.

More investigations

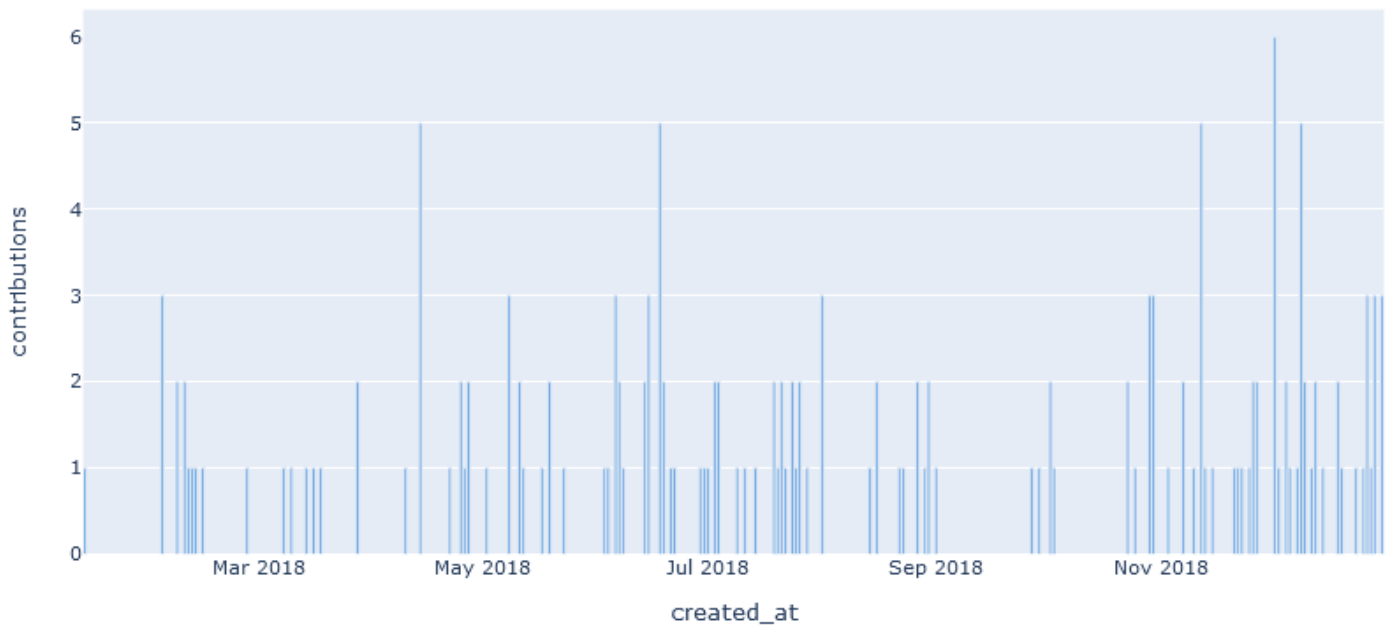
Same Month

- Jun 28
- Nov 26
- Dec 20
- Jul 19
- Oct 17
- Feb 13
- Mar 10
- Apr 10
- Aug 9
- Sep 7
- May 7
- Jan 5

contributions of the accounts posted/commented
the same month they were created

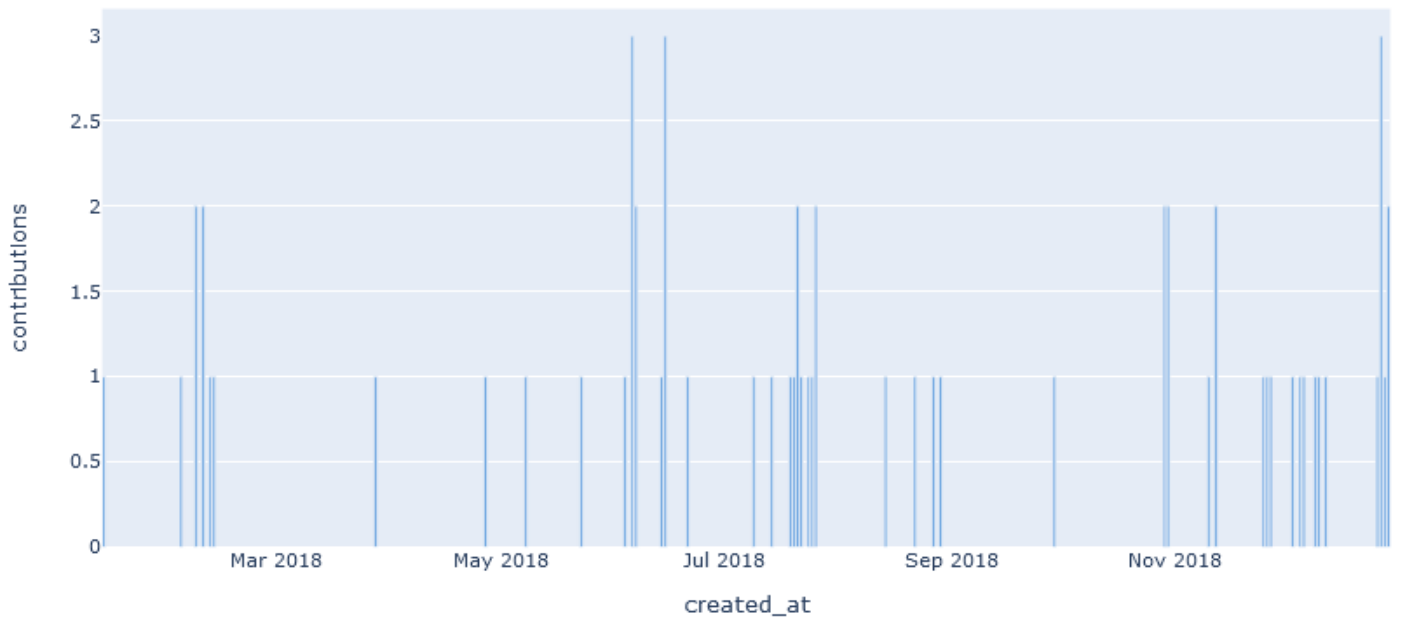


contributions of the accounts posted/commented the same month they were created

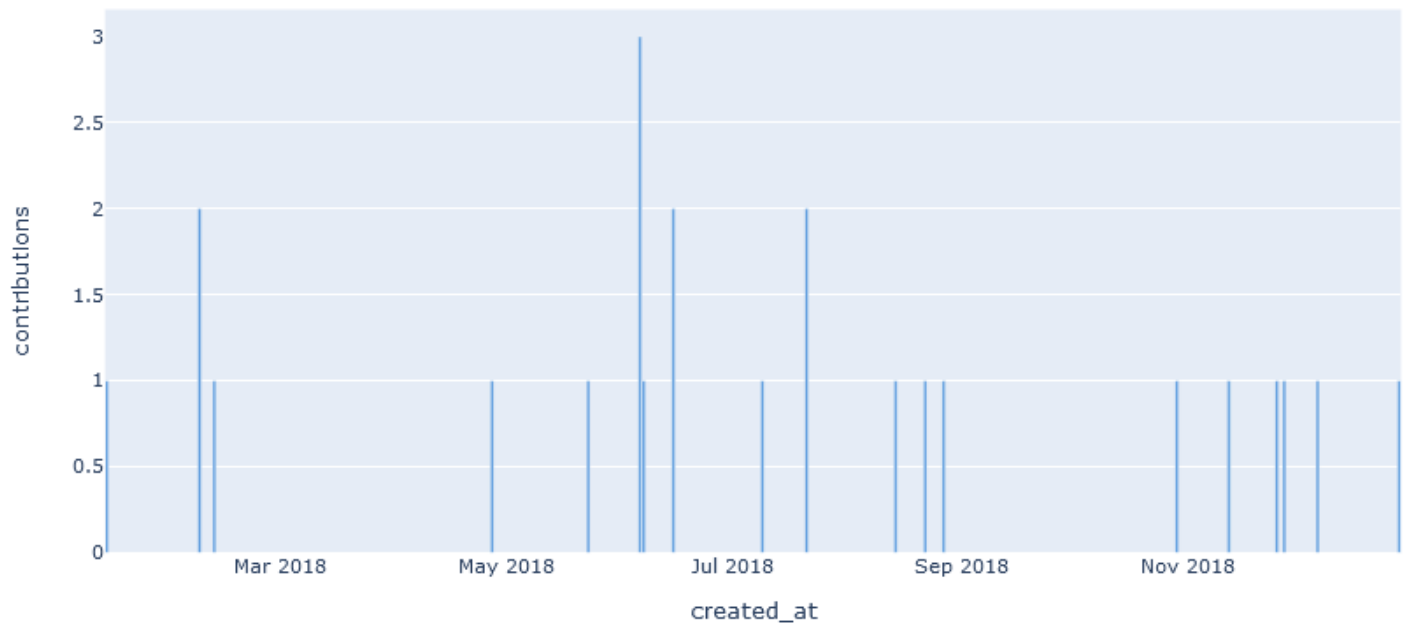


Same week

contributions of the accounts posted/commented the same week they were created

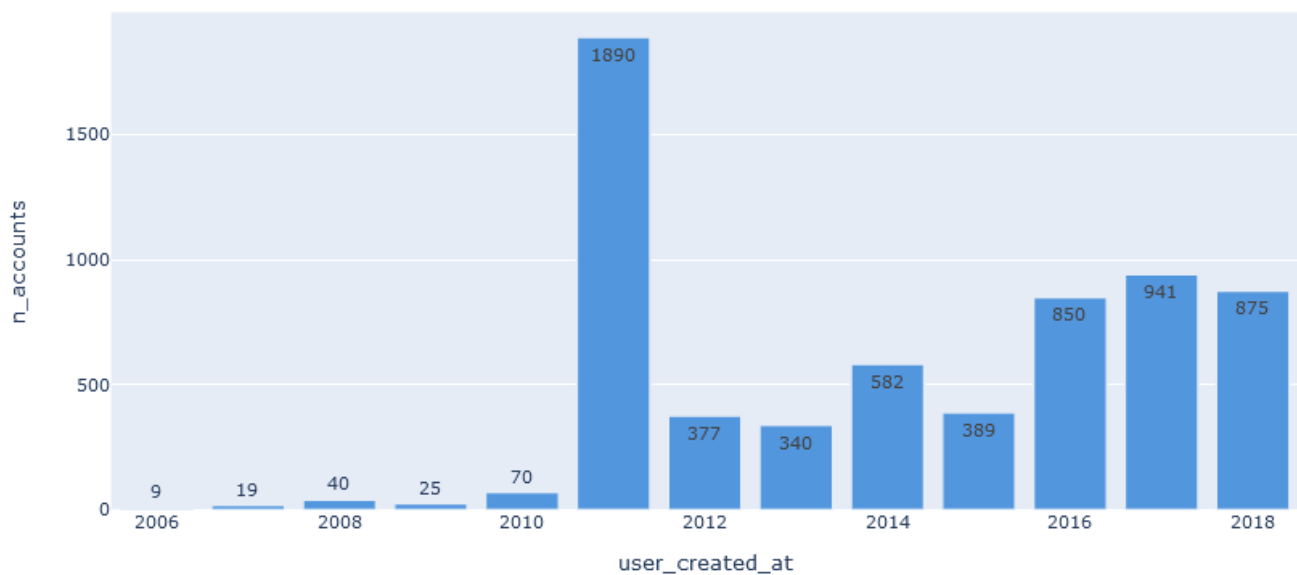


contributions of the accounts posted/commented the same day they were created



Estimation of Number of User Accounts Created in each year / having contributions in 2018

Number of User Accounts Created in each year / having contributions in 2018



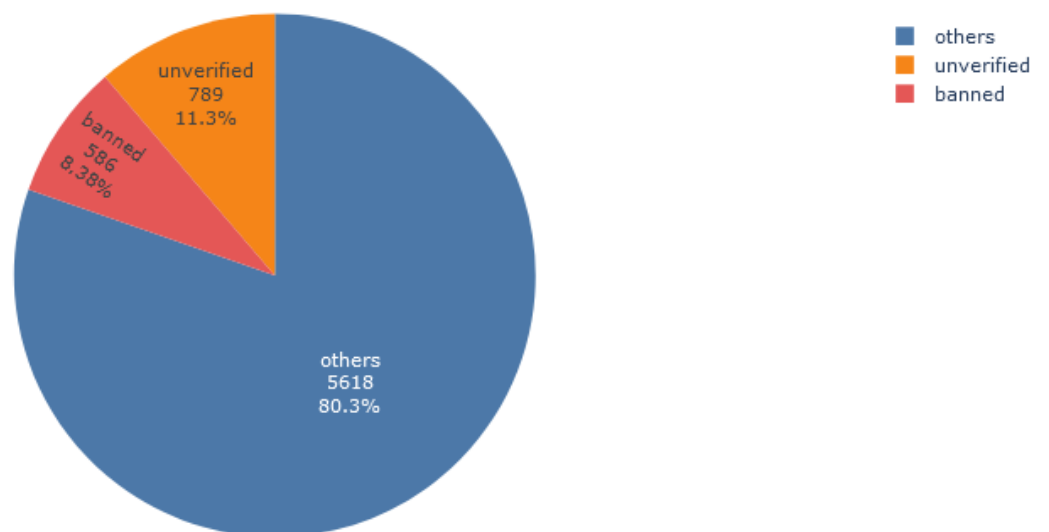
Banned Unverified accounts

- We have 5618 contributions in 2018 from banned accounts (275 users).
- We have 789 contributions in 2018 from unverified accounts (459 users).
- 875 users were made in 2018 and contributed in 2018.

Contributions

banned_unverified	
others	5618
unverified	789
banned	586

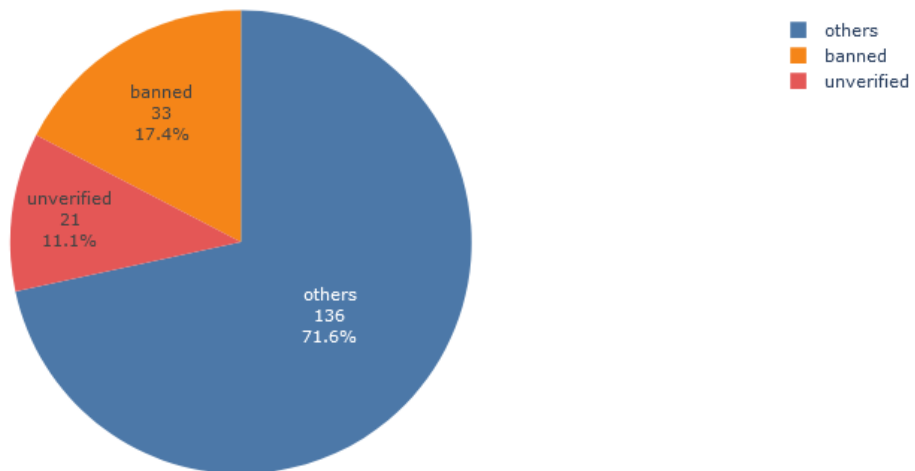
Contributions of banned / unverified /others in 2018



Peak Day Contributions

banned_unverified	
others	136
banned	33
unverified	21

Contributions of banned / unverified /others on the peak day (2018-07-03)

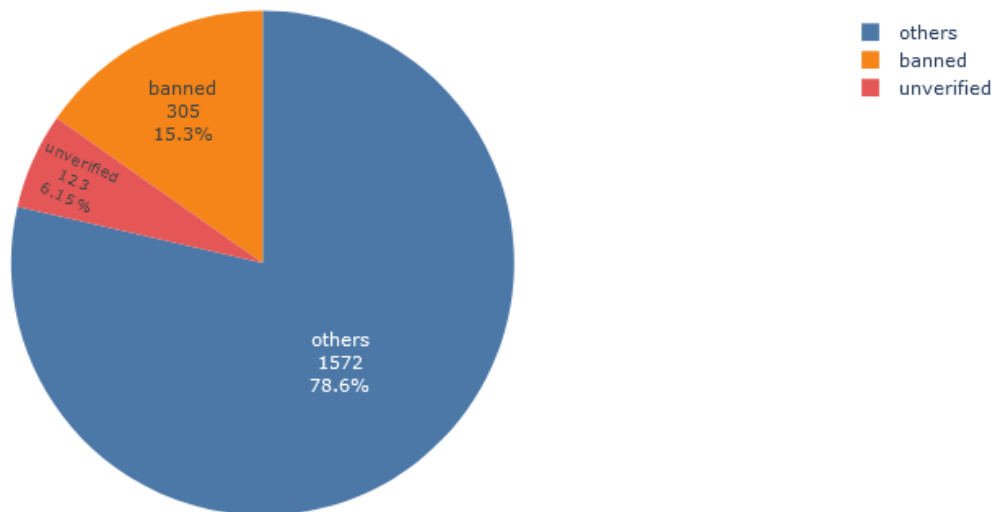


NOTE: 28.5% of peak day contributions were made by banned accounts and accounts with unverified email addresses.

Submissions

banned_unverified	
others	1572
banned	305
unverified	123

Submissions of banned / unverified /others in 2018

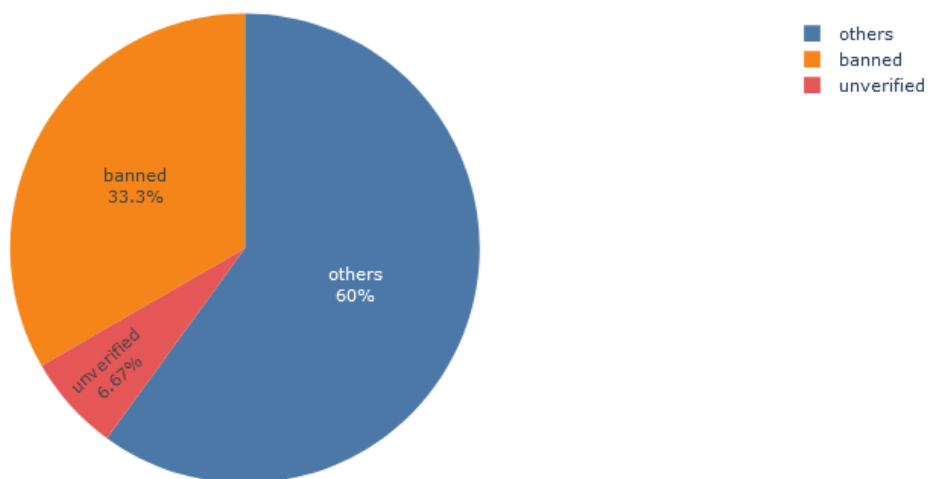


NOTE: About 21.45% of 2018 submissions were made by banned and unverified accounts.

Peak Day Submissions

banned_unverified	
others	18
banned	10
unverified	2

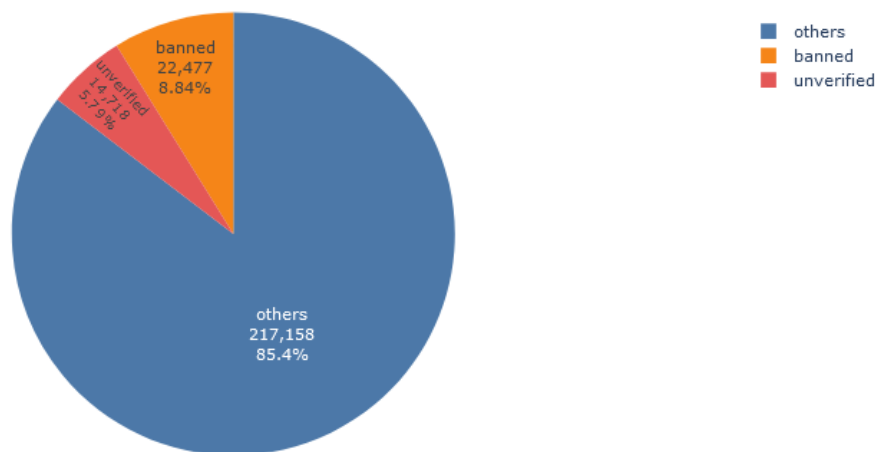
Submissions of banned / unverified / others on the peak day (2018-07-03)



Total Scores

score	
banned_unverified	
banned	22477.0
others	217158.0
unverified	14718.0

Total Scores of banned/ unverified/ others in 2018

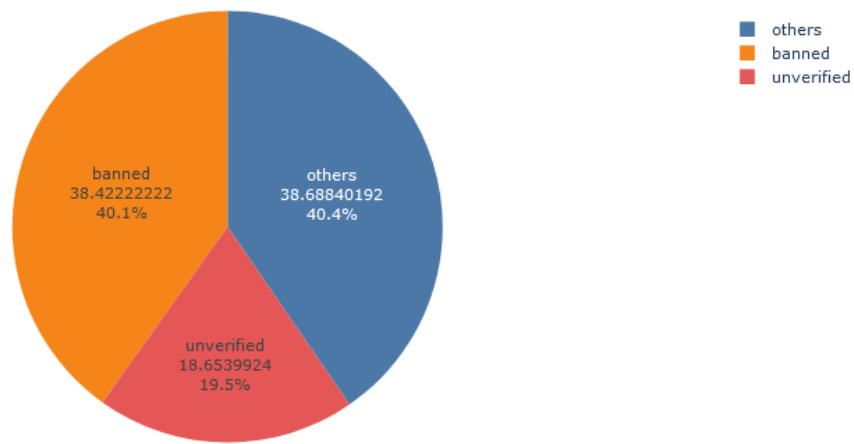


Average Scores per contribution

- $\text{avg_score} = \text{df_scores_relativ.score} / \text{df_scores_relative.n_contributions}$

banned_unverified	score
banned	38.422222
others	38.688402
unverified	18.653992

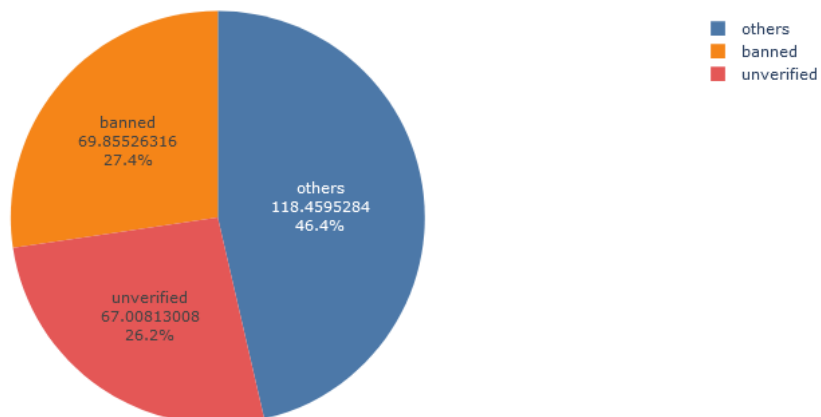
Average Scores of banned/ unverified/ others in 2018



Average Scores per submission

banned_unverified	score
banned	69.855263
others	118.459528
unverified	67.008130

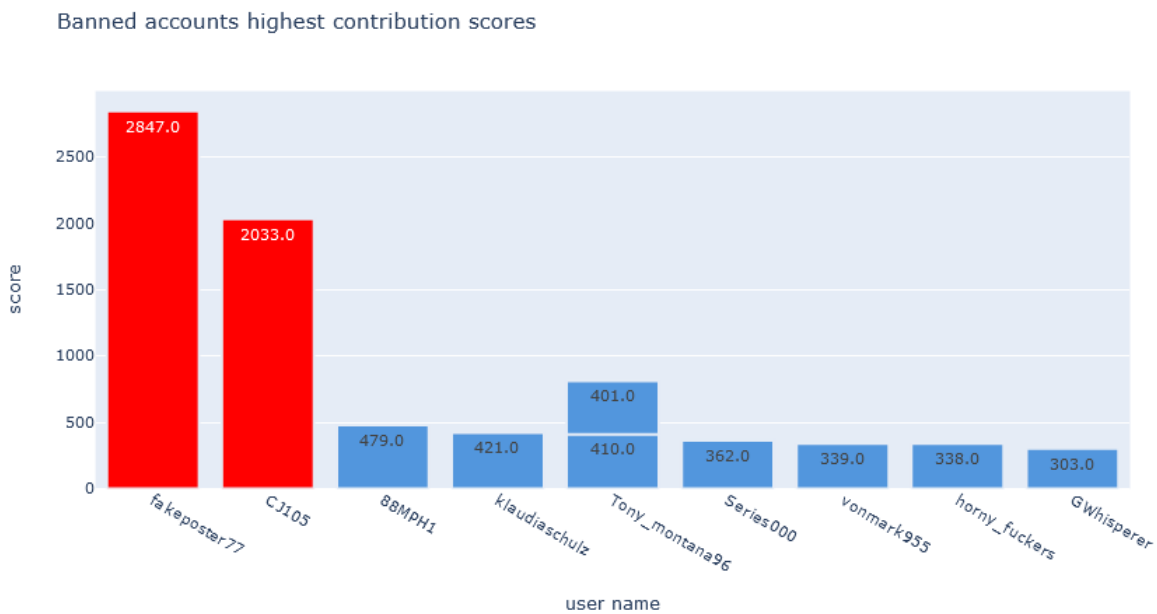
Average Scores submissions of banned/ unverified/ others in 2018



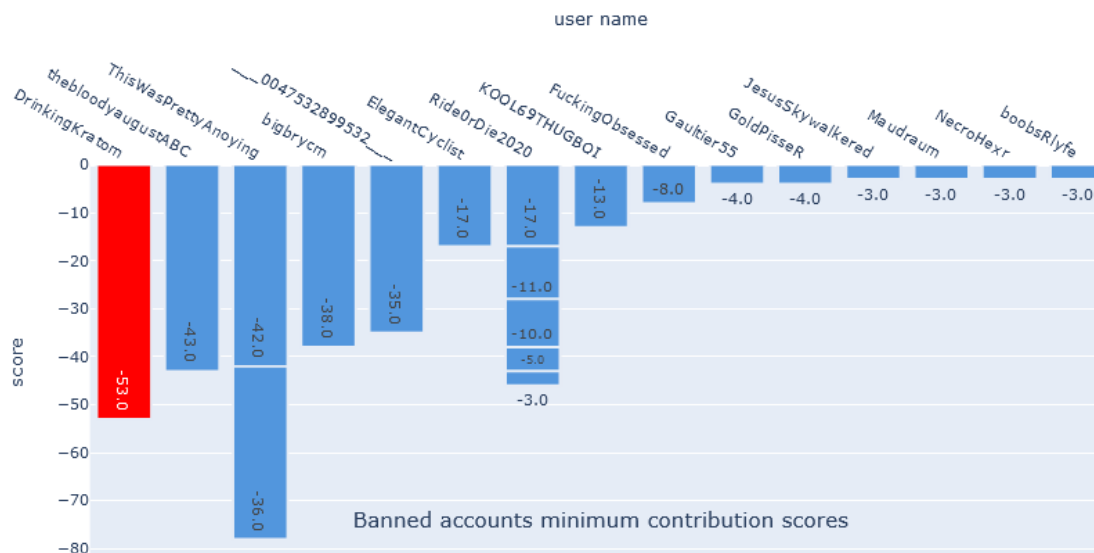
Banned Accounts

-	count	585
-	mean	38.42
-	std	157.18
-	min	-53
-	25%	1
-	50%	3
-	75%	25
-	max	2847

Banned-Accounts largest scores

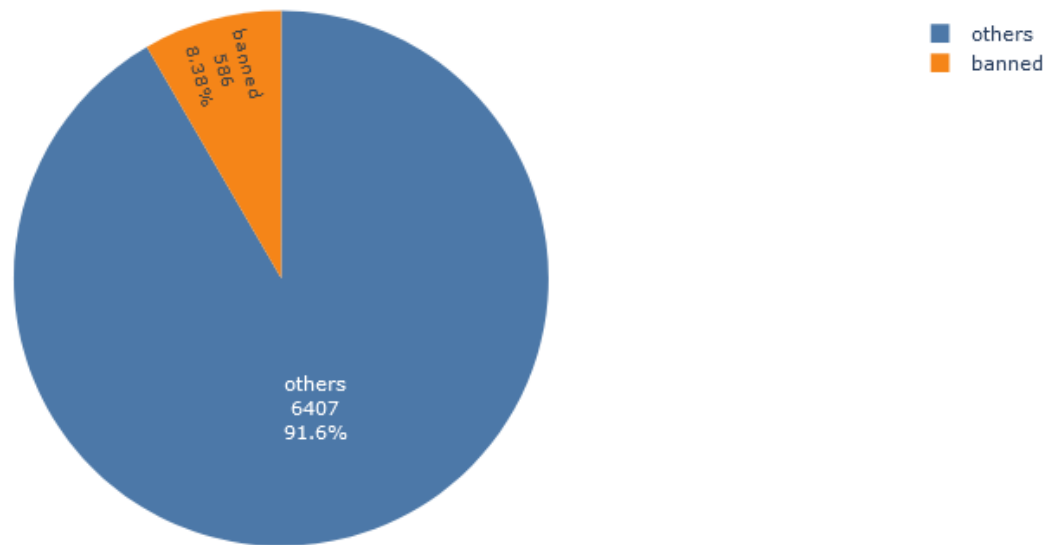


Banned-Accounts minimum scores



Contributions of Banned accounts in 2018

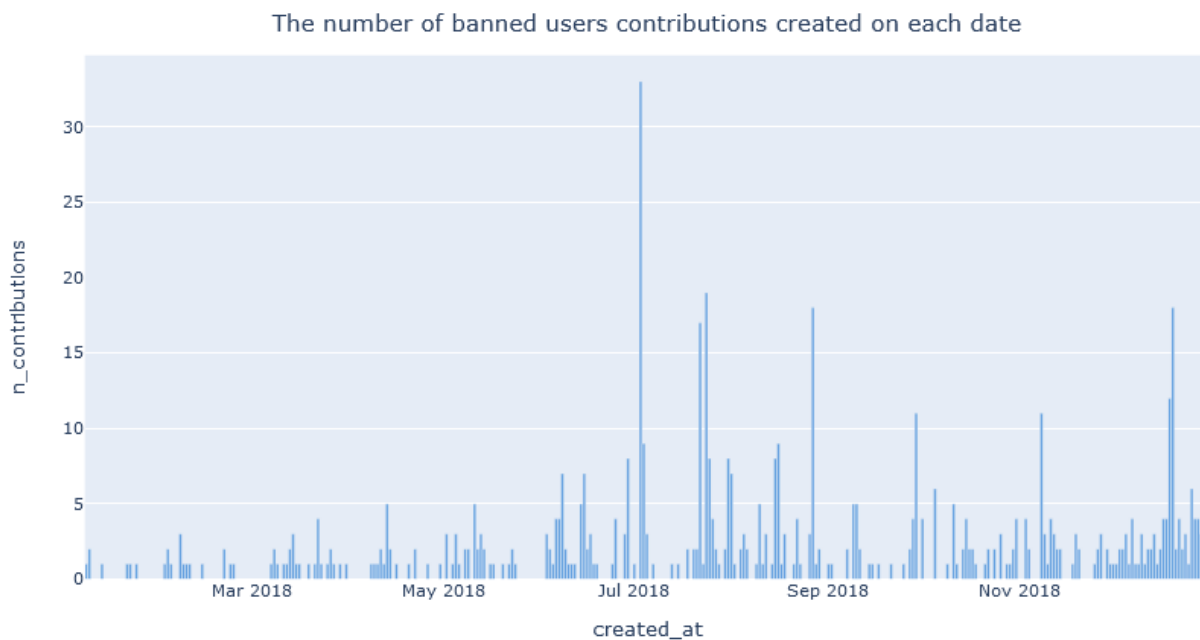
Contributions of Banned accounts in 2018



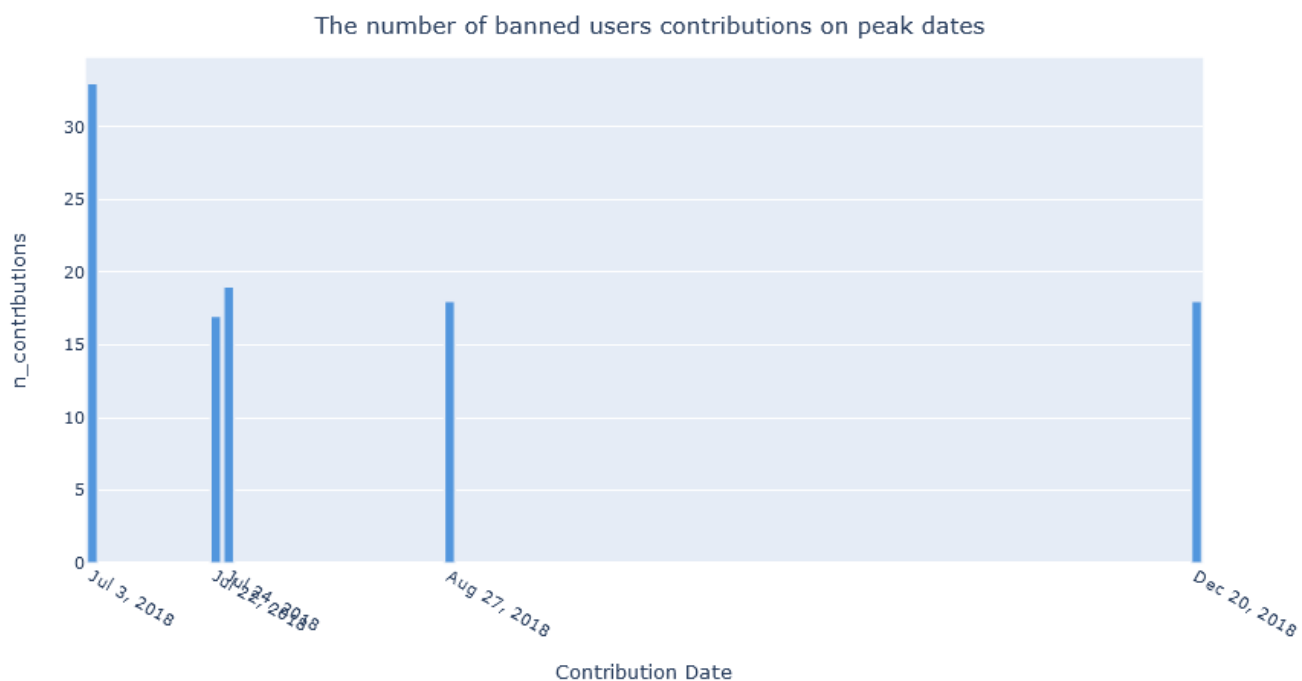
- The percentage % of 2018 contributions made by Banned accounts: 8.38

Banned Accounts Contributions Peaks

Which dates had the highest contributions of banned users?



	created_at	n_contributions
84	2018-07-03	33
95	2018-07-24	19
191	2018-12-20	18
120	2018-08-27	18
93	2018-07-22	17
190	2018-12-19	12
157	2018-11-08	11
136	2018-09-29	11
113	2018-08-16	9
85	2018-07-04	9

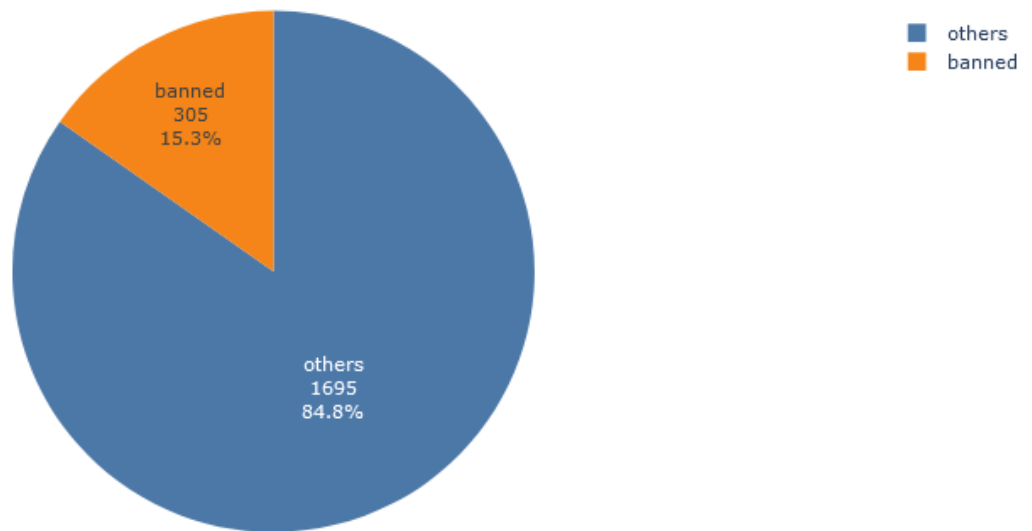


Comments of Banned accounts in 2018

- Total banned accounts comments in 2018: 281

Submissions of Banned accounts in 2018

Submissions of Banned accounts in 2018



Top submissions

- Amber Heard 142
- Pinned to Amber Heard on Pinterest 8
- Amber Heard - The Informers 8
- Amber Heard - London Fields 5
- Amber Heard & Amanda Seyfried 3

Top users:

user_name	subreddit	created_at
vonmark955	13	13
naughtytwd	11	11
horny_fuckers	10	10
demonicmax56	9	9
vonjobi951	9	9
Pm-me-your-ass-photo	7	7
OrganicSatisfaction	5	5
CJ105	4	4
chrisdeli	4	4
Tony_montana96	4	4
PussySlayingVirgin	4	4

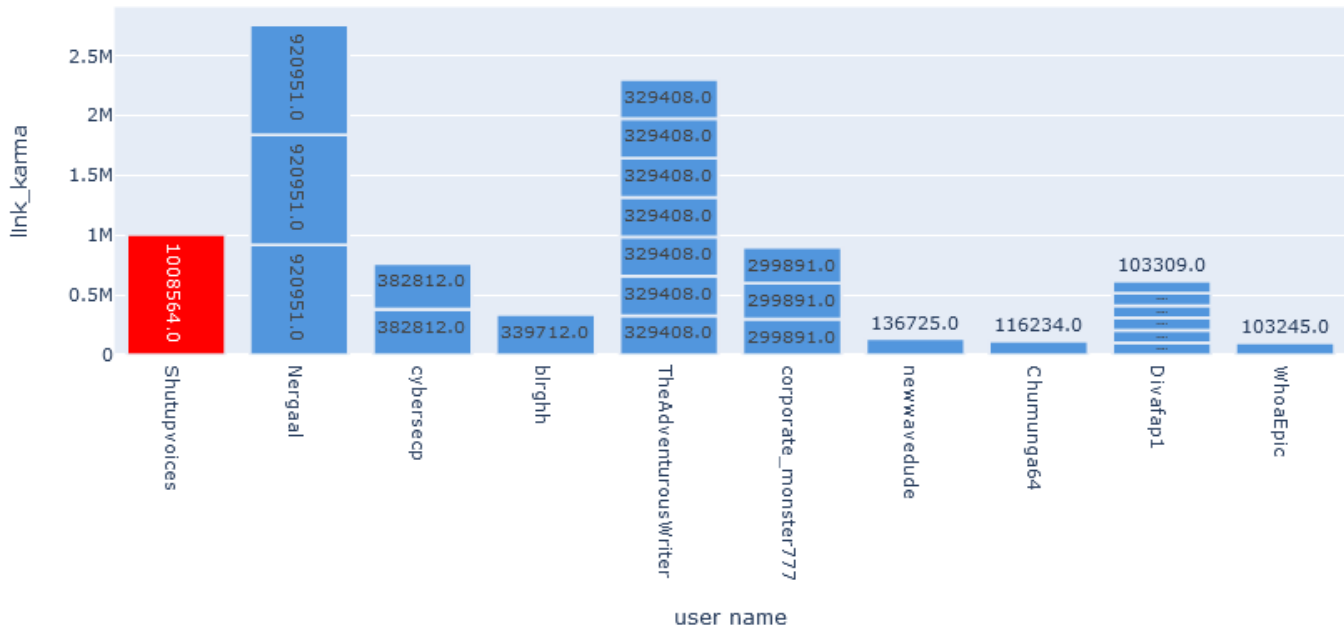
NOTE: "michikoperdue": this user made 3 contributions with the same text in the same time in 3 different subreddits

- r/Celebsnudess 1
- r/CelebNudes 1
- r/celebJOuds 1

Unverified Accounts

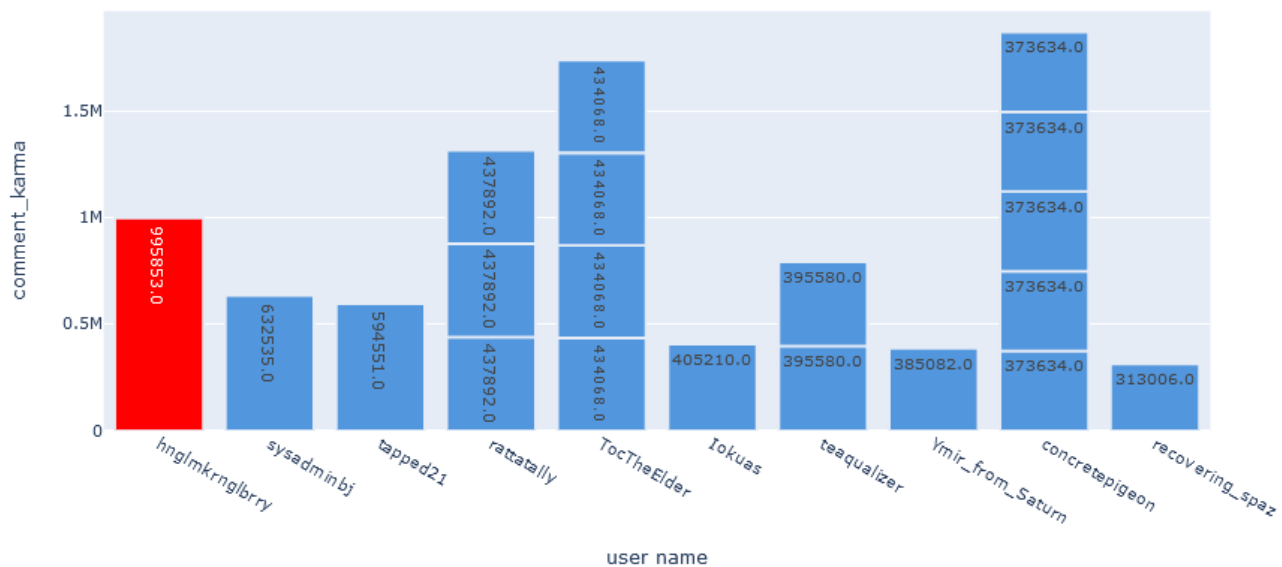
Unverified Accounts With The Largest Link Karma

Unverified accounts with highest link karma



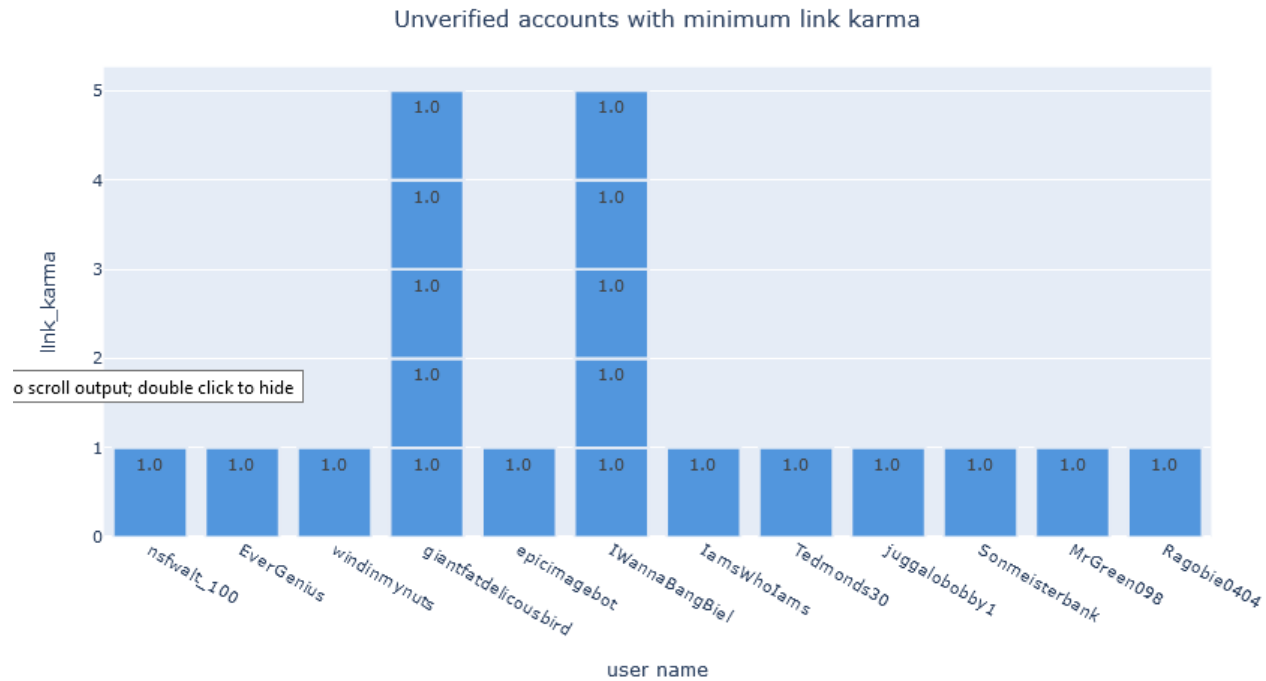
Unverified Accounts With The Largest Comment Karma

Unverified accounts with highest comment karma



hnglmkrnglbrry unverified account with the highest comment karma. Account Created at: 2017-01-30.

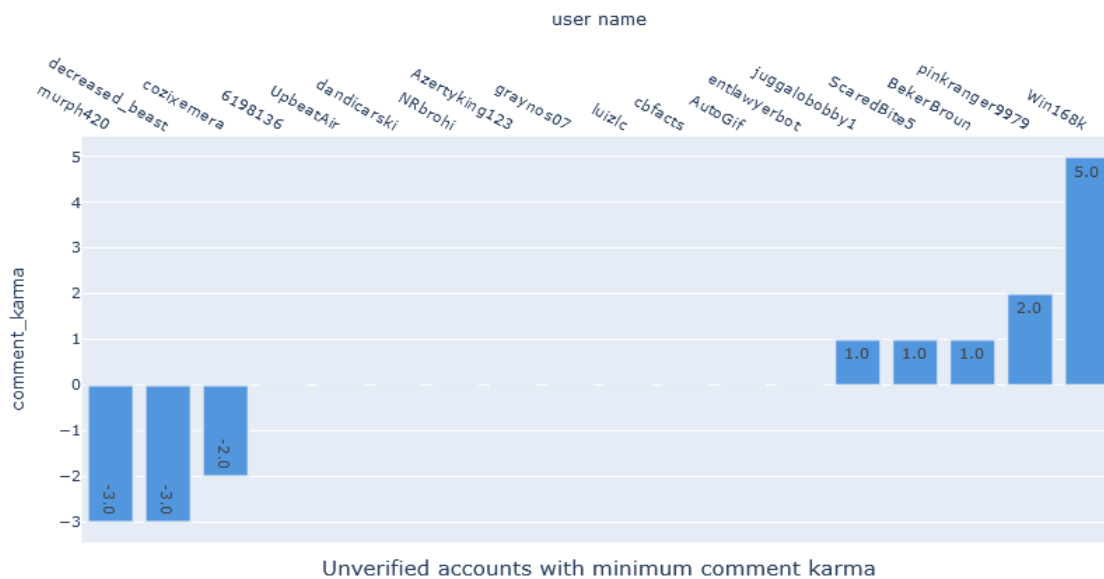
Unverified Accounts With The Minimum Link Karma



- **A lot of unverified users has a link karma of 1**

'nsfwalt_100', 'EverGenius', 'windinmynuts', 'giantfatdeliciousbird', 'epicimagebot', 'IWannaBangBiel', 'IamsWhoIams', 'Tedmonds30', 'juggalobobby1', 'Sonmeisterbank', 'MrGreen098', 'Ragobie0404'

Unverified Accounts With The Minimum Comment Karma

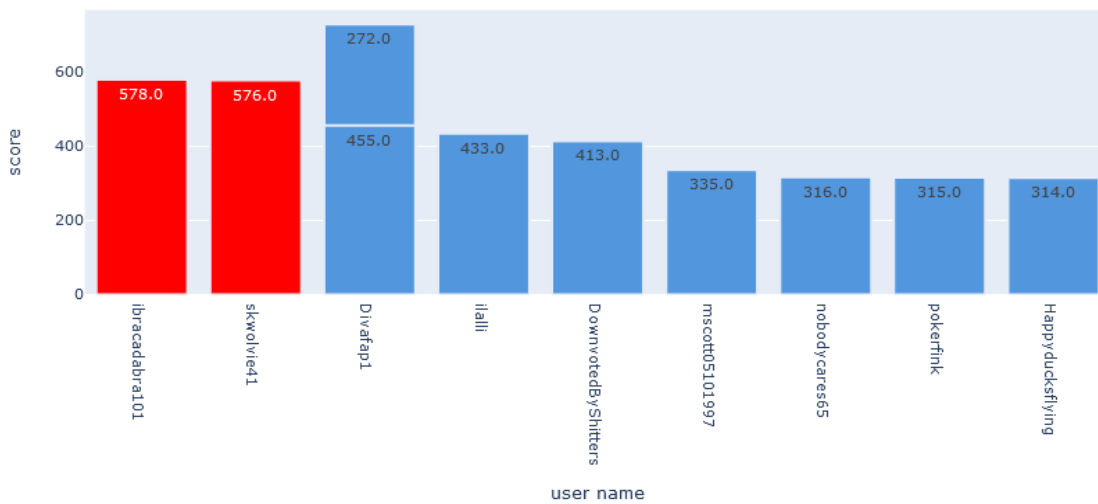


- **murph420** has the minimum comment karma.

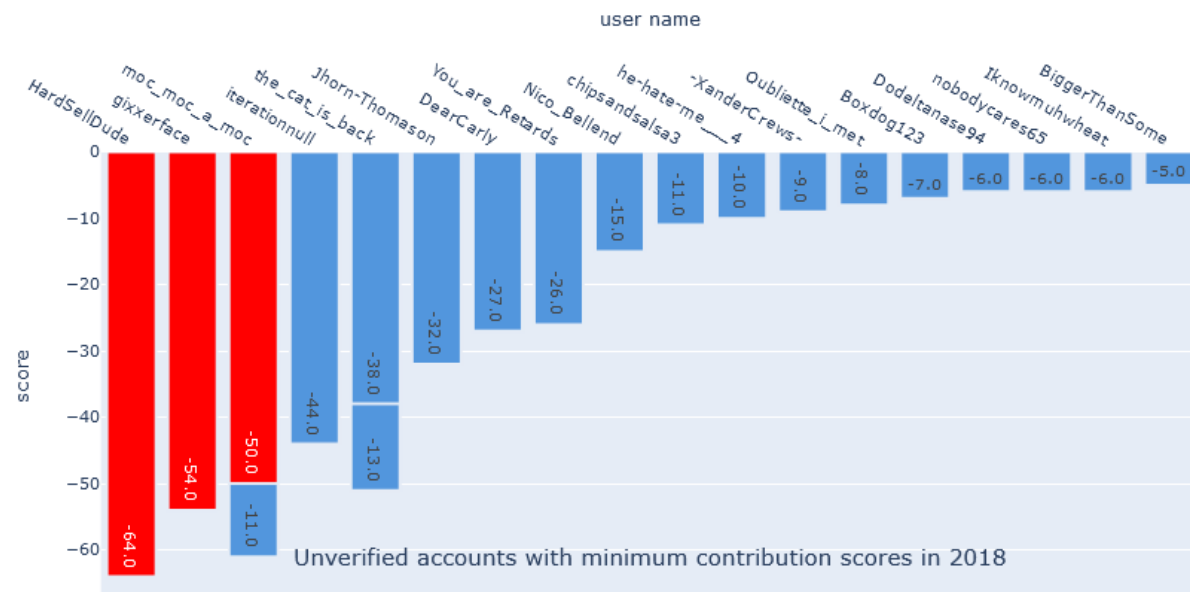
Explore the largest scores

- count 789
- mean 18.65
- std 55.2
- min -64
- 25% 1
- 50% 3
- 75% 11
- max 578

Unverified accounts with highest contribution scores in 2018



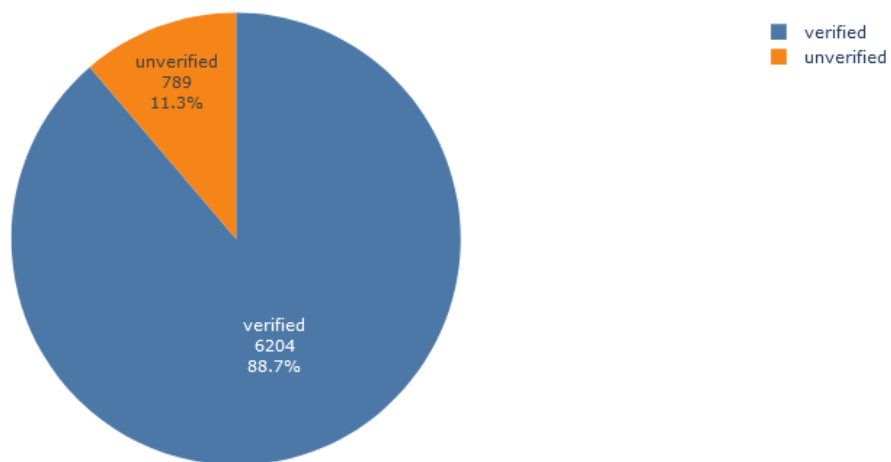
ibracadabra101 this user has the highest score among the unverified users



HardSellDude this user has the minimum score among the unverified users

Contributions of Unverified accounts in 2018

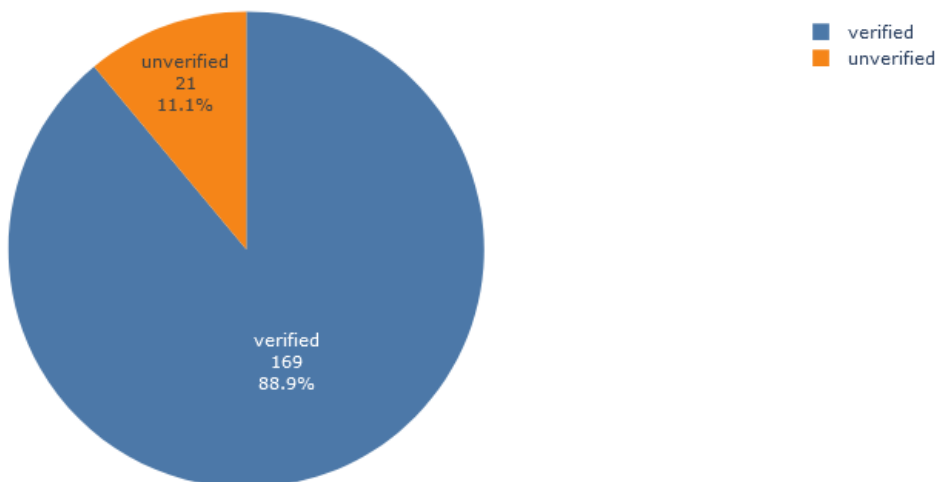
Contributions of Unverified accounts in 2018



-

Peak day contributions (2018-07-03)

Contributions of Unverified accounts on peak day (2018-07-03)

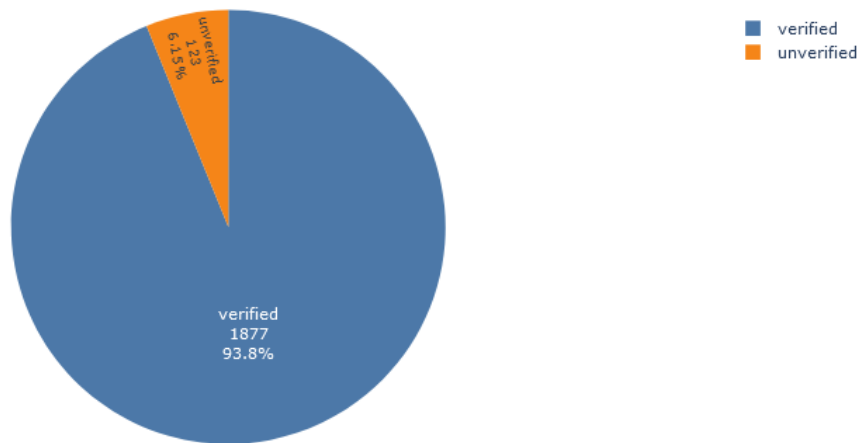


Comments

- Total banned accounts comments in 2018: 666
- Tests:
 - What did she hear? 3
 - Mfk 2
 - MFK 2
 - r/Lordosis 2
 - What is this from? 2

Submissions

Submissions of Unverified accounts in 2018



user **Doc-Sidious** made 8 submissions in the same subreddit **r/Celebhub** ,6 of them were made in **2018-12-02**

- 2018-12-02 6
- 2018-11-23 1
- 2018-11-10 1

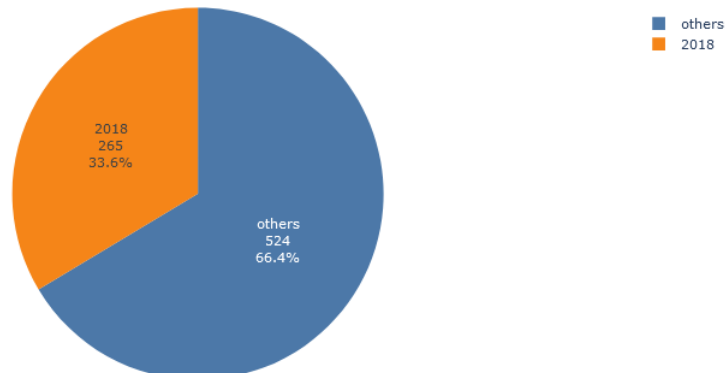
user **CelebsSpot** made 5 submissions, 4 of them in one subreddit **r/sexycelebs**

- 2018-11-12 2
- 2018-11-15 1
- 2018-11-22 1
- 2018-12-15 1

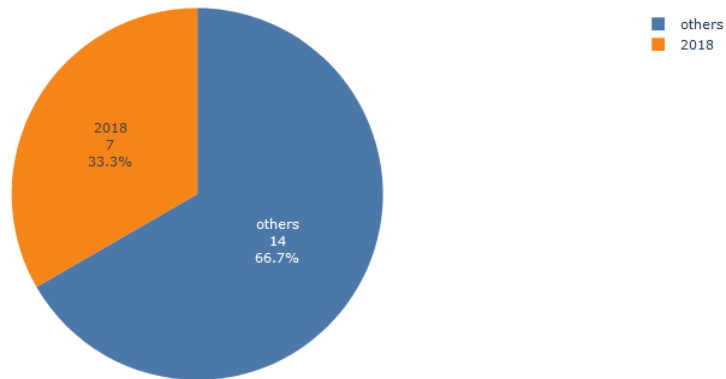
The account creation year of the unverified accounts contributed in 2018

Contributions

Contributions of Unverified accounts in 2018

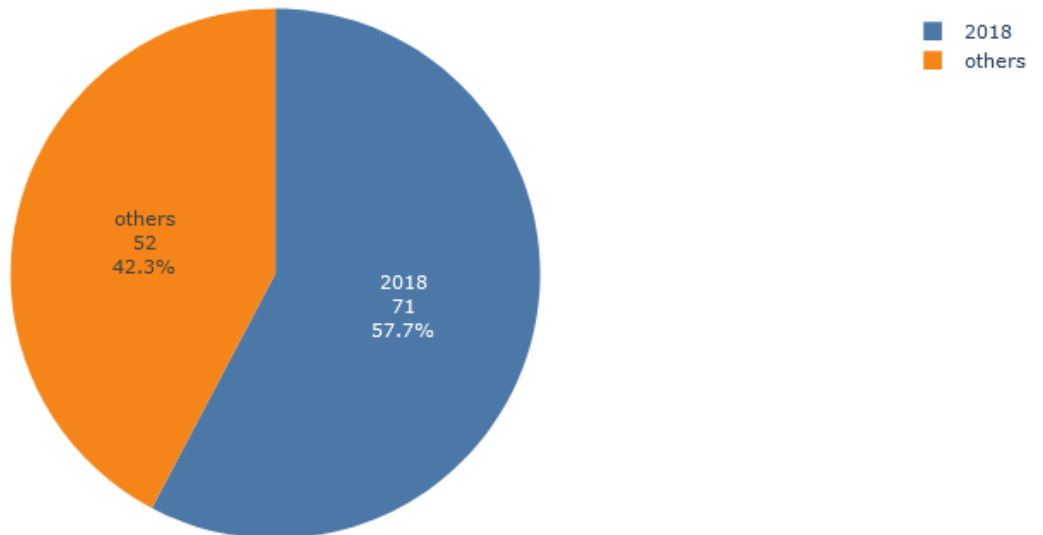


Contributions of unverified accounts on the peak day (2018-07-03)



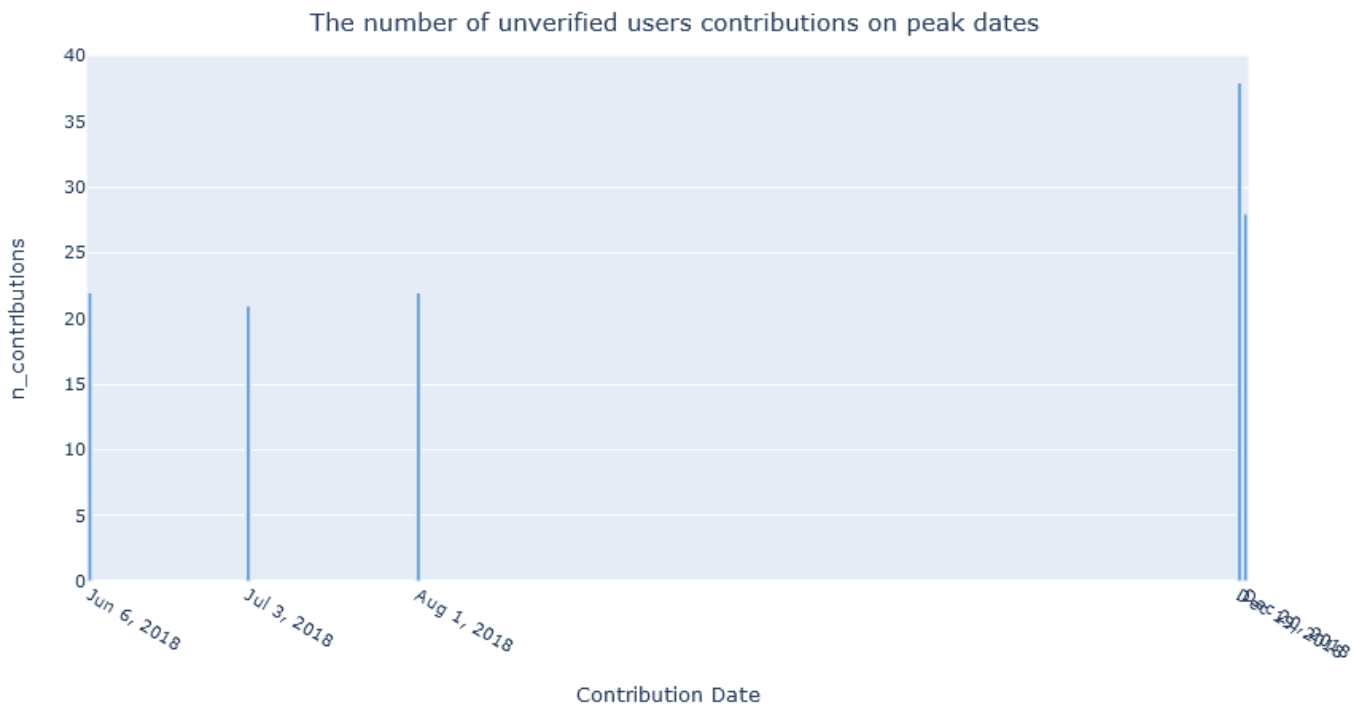
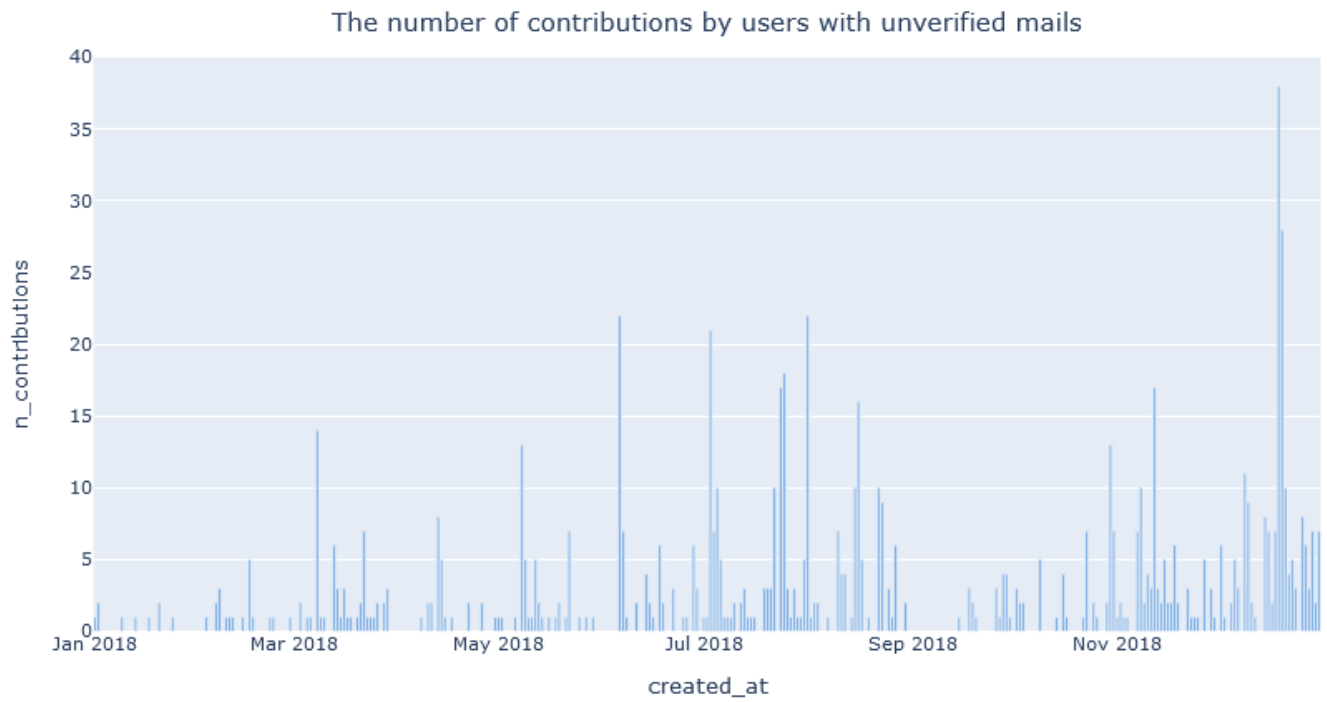
Submissions

Submissions of Unverified accounts in 2018



- Unverified Accounts made 2 submissions on the peak day 2018-07-03

Which dates had the highest contributions of unverified accounts?

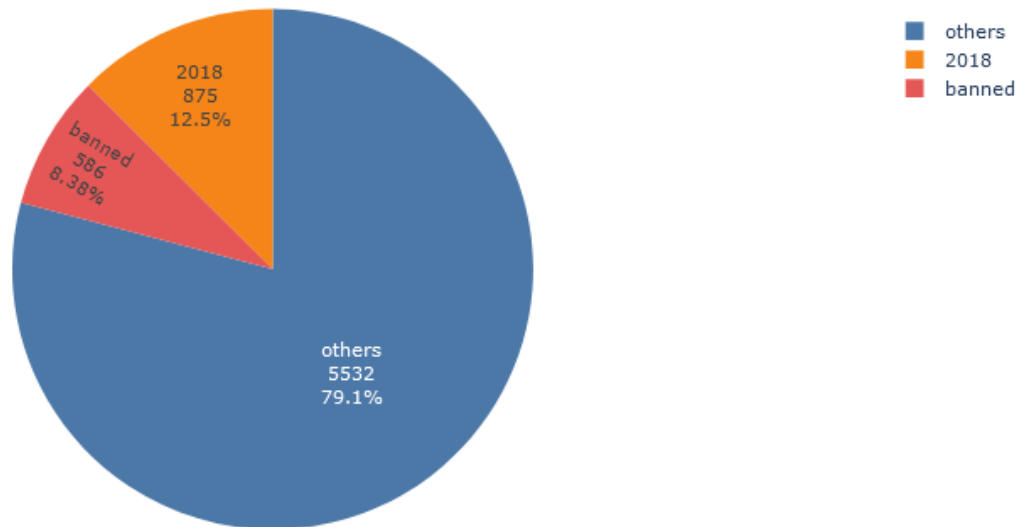


	created_at	n_contributions
68	2018-06-06	22
84	2018-07-03	21
109	2018-08-01	22
188	2018-12-19	38
189	2018-12-20	28

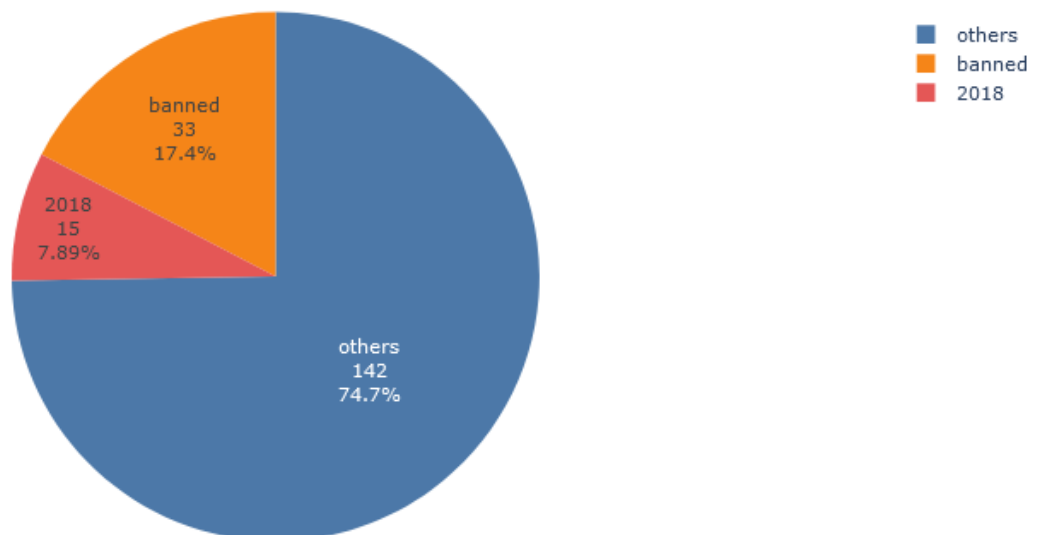
New Vs Others

New Accounts Contributions

Contributions of 2018 accounts in 2018

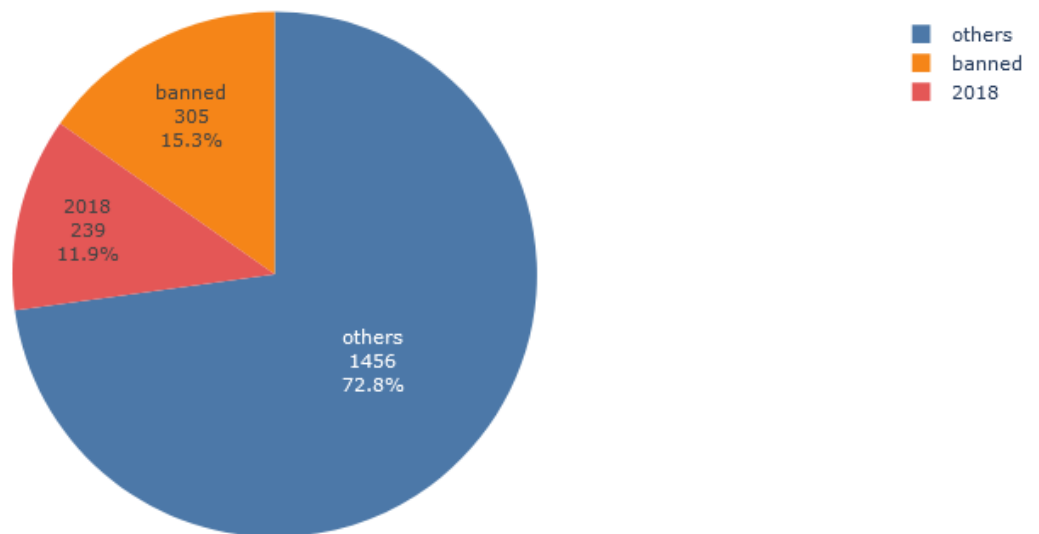


Contributions of 2018 accounts on the peak day (2018-07-03)

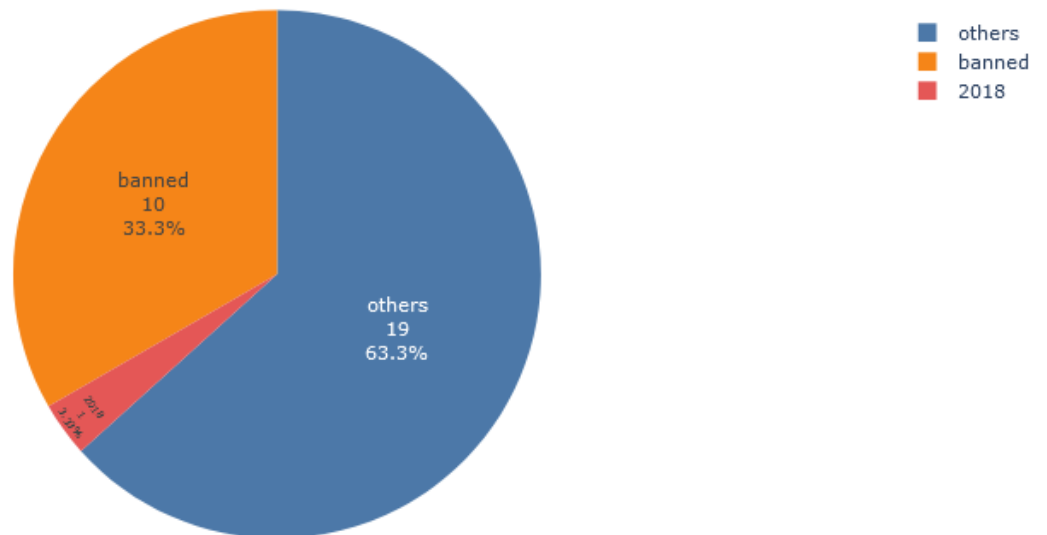


New Accounts Submissions

Submissions of 2018 accounts in 2018



Submissions of 2018 accounts on the peak day (2018-07-03)



- We only have 30 submissions on peak day with about 160 comments and replies

Accounts created in 2018

Contributions

- Total contributions in 2018 made by newly created accounts(2018): 875
- The percentage % of 2018 contributions made by newly created accounts(2018): 12.51

Comments

- Total comments in 2018 made by newly created accounts(2018): 636

Submissions

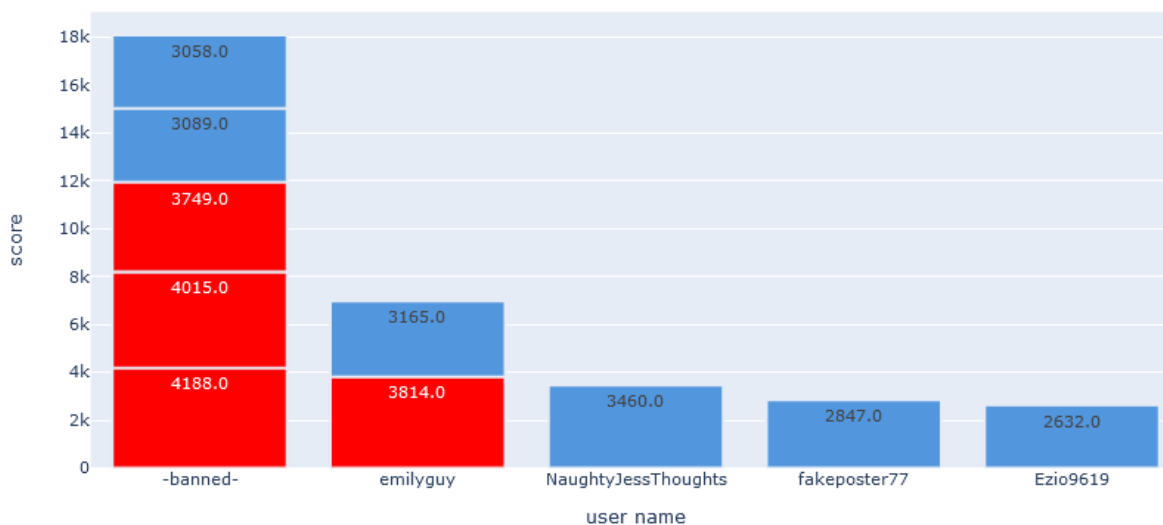
- Total submissions in 2018 made by newly created accounts(2018): 239
- The percentage % of 2018 submissions made by newly created accounts(2018): 11.95

2018 Contributions Scores

Explore the largest scores

- count 6987
- mean 36.4
- std 170
- min -92
- 25% 1
- 50% 3
- 75% 16
- max 4188

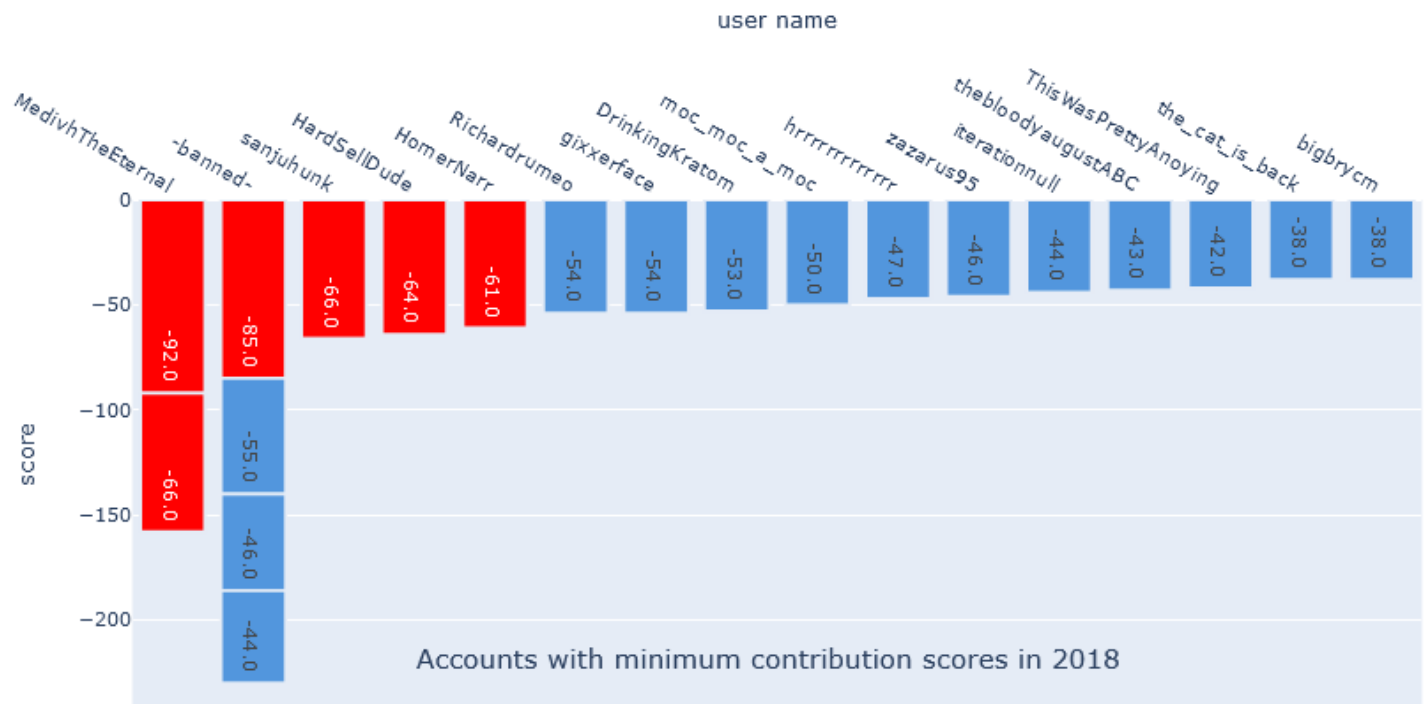
Accounts with highest contribution scores in 2018



emilyguy

- Created on 2018-03-08
- Has only 38 contributions in 2018
 - submission 34
 - comment 4
- in those subreddits
 - r/gentlemanboners 19
 - r/Celebs 9
 - r/celebsnaked 4
 - r/celebsfw 3
 - r/WatchItForThePlot 2
 - r/CaraDelevingne 1

Explore the minimum scores



MedivhTheEternal

- Created on 2018-03-08
- Has the minimum contribution scores in 2018

Conclusions

Banned / Unverified Accounts

- About 20% of 2018 contributions were made by banned (8.38% --> 586) and unverified (11.3% --> 789) accounts.
- About 20% of 2020 submissions were made by banned (14.9% --> 1175) and unverified (6.48% --> 511) accounts.
- 28.5% of the peak day contributions (2018-07-03) were made by banned (17.4% --> 33 and unverified (11.1% --> 21) accounts.
- 21.45% of submissions of the peak day submissions (2018-07-03) were made by banned accounts(15.3% --> 305) and unverified accounts (6.15% --> 123)

Banned

fakeposter77 only made one submission on 11-11-2018.

fakeposter77: this user's contributions got the highest scores.

michikoperdue: this user made 3 contributions with the same text in the same time in 3 different subreddits

- r/Celebsnudess 1
- r/CelebNudes 1
- r/celebJObuds

Unverified

Unverified Accounts Contributions in 2018

Accounts Creation Year	n_contributions
2018	33.6% (265)
others	66.4% (524)

Unverified Accounts Submissions in 2018

Accounts Creation Year	n_submissions
------------------------	---------------

2018	57.7% (71)
------	------------

others	42.3% (52)
--------	------------

Unverified Accounts Contributions in 2018 peak day (03/07/2018)

Accounts Creation Year	n_contributions
------------------------	-----------------

2018	33.3% (7)
------	-----------

others	66.7% (14)
--------	------------

Unverified Accounts Submissions in 2018 peak day (03/07/2018)

Accounts Creation Year	n_submissions
------------------------	---------------

2018	57.7% (71)
------	------------

others	42.3% (52)
--------	------------

- **hnglmkrnglbrry** unverified account with the highest score.
 - Account Created at: 2017-01-30
- A lot of unverified users has a link karma of **1**

'nsfwalt_100', 'EverGenius', 'windinmynuts', 'giantfatdeliciousbird', 'epicimagebot', 'IWannaBangBiel', 'lamsWholams', 'Tedmonds30', 'juggalobobby1', 'Sonmeisterbank', 'MrGreen098', 'Ragobie0404

- **murph420** has the minimum comment karma
- **ibracadabra101** this user has the highest score among the unverified users
- **HardSellDude** this user has the minimum score among the unverified users

2018 Accounts

- 12.5% of 2018 contributions were made by users created in 2018.
- 11.9% of 2018 submissions were made by users created in 2018.
- 7.89% of the peak day contributions (03/07/2018) were made by users created in 2018.
- 3.33% of the peak day submissions (03/07/2018) were made by users created in 2018.

2018 Accounts Contributions in 2018

Accounts Creation Year	n_contributions
2018	12.5% (875)
banned	8.38% (586)
others	79.1% (5532)

2018 Accounts Submissions in 2018

Accounts Creation Year	n_submissions
2018	11.9% (239)
banned	15.3% (305)
others	72.8% (1456)

2018 Accounts Contributions in 2018 peak day (07/03/2018)

Accounts Creation Year	n_contributions
2018	7.89% (15)
banned	17.4% (33)
others	74.7% (142)

2018 Accounts Submissions in 2018 peak day (07/03/2018)

Accounts Creation Year	n_submissions
2018	3.33% (1)
banned	33.3% (10)
others	63.3% (19)

emilyguy

- Created on 2018-03-08
- Has only 38 contributions in 2018
 - submission 34
 - comment 4
- in those subreddits

- r/gentlemanboners 19
- r/Celebs 9
- r/celebsnaked 4
- r/celebsnsfw 3
- r/WatchItForThePlot 2
- r/CaraDelevingne 1

MedivhTheEternal

- Created on 2018-03-08
- Has the minimum contribution scores in 2018
 - She may be beautiful but shes just a high quality gold digger... screw her.. First Johnny Depp and then Elon Musk...
 - Fair enough i guess :)
 - I'll have to disagree man, im a huge fan of Johnny Depp no matter what i think hes right. I am biased perhaps but i cant help it
 - I think marrying for money is a more dishonored action
 - I dont play Hearthstone, I play WoW
 - I completely agree